STEEL LAYSIN TARHER

Volume XLVI. Number 37

TOPEKA, KANSAS; SEPTEMBER 10, 1908

Established 1863. \$1 a Year



PARADE OF PRIZE-WINNERS AT THE STATE FAIR, 1907

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The Kansas bank commissioner reports that the volume of deposits has again reached the high-water mark attained before the panic. This season's crops and prices should enable the banks to break the record.

In some parts of Kansas it is the almost universal practise to follow each day's plowing with the harrow before leaving the field. It is profitable. Lumps that would become clods are easily reduced. Cavities which would tend to increase evaporation are filled. The soil is so worked in with vegetation that is turned under as to hasten its decomposition. The work of the soil enlivening bacteria is favored.

The "fair season" is now on. The great West is presenting State Expositions that excell in magnitude and attendance any ever held. Iowa led week before last with a record breaker. Nebraska held attention last week. Kansas comes forward this week with two big fairs, one at Topeka, the other at Wichita, and will hold yet another next week at Hutchinson. If Kansas could combine these three and their influence this State could present an exposition that would be hard to match.

It is suggested by Bank Commissioner Royce that the money in Kansas banks is sufficient to meet all demands for loans in this State, and that by the establishment of a central bureau of information, say, at the Bank Commissioner's office, the excess of demands for loans in some quarters and the excess of demand for money at others may be equalized. This would keep within the State all money paid for interest and would prevent such inconvenience as was suffered last winter when Kansas money deposited by bankers in Eastern institutions could not be had on

A new book by Secretary F. D. Coburn is announced to appear soon from the presses of the Orange Judd Company, New York. This is not a new edition of "Coburn's Swine Husbandry" which has been standard for nearly a third of a century and which will still have a large place. The new book will be entitled "Swine

in America." It will deal with the subject of swine in its many phases, from a practical standpoint, under conditions as they now exist. It will be handsomely illustrated, a companion volume to the "Book of Alfalfa" and the handsomest book yet devoted to any one class of livestock.

The fruit crop of Kansas according to returns to Secretary Wellhouse of the State Horticultural Society reported September 8, averages for the State as follows: Apples, 41 per cent; pears, 37 per cent; peaches, 46 per cent; and grapes, 54 per cent of a full crop. While there is considerable variation in the out-turn in the several sections of the State, there is much fruit in every Congressional district.

KANSAS ASSESSMENT FOR 1908.

The total assessed valuation of property in Kansas on March 1, 1908, is \$2,488,401,075.89. This does not include some \$2,000,000 worth of property of the Western Union Telegraph Company which the Tax Commission could not certify on account of injunction proceedings not yet terminated.

The map on this page shows the distribution of this wealth among the several counties of the State.

The smallest amount returned for any county is for Morton, the southwest corner county, which shows up with \$1,459,846 worth of taxable property.

The largest amount returned is for Wyandotte County, situated about fifty miles south of the northeast corner of the State.

The average per county is \$2,369,

With the important exception of the mineral wealth, found chiefly in the southeastern corner of the State, and the carrying and other industries connected with this wealth, the property of Kansas is that used in agriculture and the transportation, manufacturing, and commercial enterprises dependent upon agriculture and serving the farmers. This wealth has been largely developed in Kansas.

A little more than one hundred years ago-in 1803-the United States bought from France not only Kansas but all of the country lying between the Mississippi River on the east and Texas and the main range of the Rocky Mountains on the west for \$15,000,000, a little more than one-onehundred-and-sixty-sixth of the present assessed valuation of Kansas. For almost fifty years this "grassy quadrangle" lay almost unused save by the roving Indians and the vast herds of buffaloes.

A little more than half a century has sufficed to make farms and farm homes of what Lieutenant Pike, in reporting his explorations of 1806, called the "buffalo plains."

For ages uncounted these plains had lain almost unoccupied because no man wanted them. The demand for land and its products for the sustenance of man has created most of these values. The demand for these products increases in geometrical ra-

tio with the peopling of the earth. Such an unused fertile domain as was acquired one hundred years ago from France is not now open to conquest. The crowding process is beginning. Happy shall we be if those who till the soil shall so recognize its appreciating value that they will continue to own it instead of letting it go into the hands of syndicates or other large owners.

The creation of 21/2 billions of reserve wealth in half a century means an average of 50 millions a year. There are no former assessments at actual value with which to compare the figures of this year, but it is safe to assume that the present rate of increase of this reserve over and above the living expenses of the people is 50 per cent above the average or at the rate of 75 millions per year.

"Let the good work go on."

FARMERS' INSTITUTE STAFF IN KANSAS.

Four years ago the Kansas State Agricultural College aided in holding fifty-four farmers' institutes and there were but few permanent, legal institute organizations. The regents believe that this is a most practical work and are each year asking for more funds for conducting these meetings. For the last year Kansas has had more farmers' institutes than several neighboring States with two or three times the appropriation and the Farmers' Institute Department assisted in holding 176 institutes with a total attendance of over 41,000 farmers. Next year Superintendent Miller hopes to hold 250 institutes with the State appropriation of \$6,000 and to have the attendance reach 75,000.

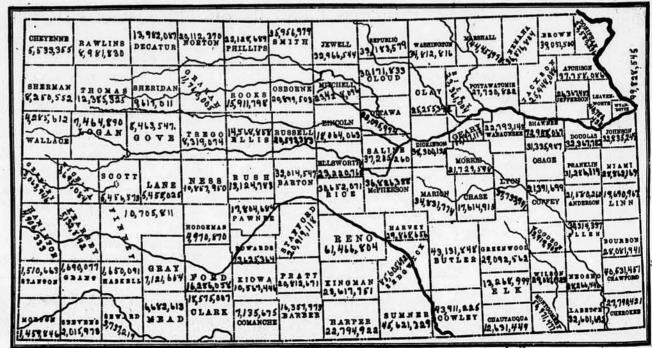
To do all this work it is absolutely necessary to call in the aid of prominent farmers and others in the State, not connected with the college. The regents have allowed an assistant for the department and Mr. P. E. Crabtree, a practical farmer and stockman, has been employed to devote his whole time to this work. Mr. Crabtree assisted the department last winter for six weeks in Eastern Kansas and pleased the farmers very much and his employment has brought many letters of approval from institute officers. He has lived on his own farm, raising pure-bred corn, Percheron horses, Poland-China hogs, and fine poultry. For several years he was editor of a stock paper in Denver and vice-president of the Colorado Poultry Association and was sent to Europe by that association to make certain poultry investigations. Mr. Crabtree owns two good Kansas farms and will bring to his new work excellent qualifications. His duties for the first year will be confined almost wholly to field work in Eastern Kansas.

In addition to a dozen college men who will give from two to eight weeks of service to this cause as heretofore, TenEyck, Wheeler, Kinzer, Kendall, Headlee, McCormick, Willard, Dickens, Schoenleber, Mrs. Van Zile, Miss

Dow, Miss Woodward, Miss Lindsay, and others including Superintendent Miller, the regents have approved the employment of outside men, men who have been successful in actual farming and stock raising. Superintendent Miller has secured the following well known Kansas men, some for only one week, others for two, three, and even four weeks, with one or two who may be able to assist for six weeks. Mr. S. C. Hanna Howard, one of the most successful farmers and stockmen, who has probably the finest pastures in Kansas, to talk on "Farm Pastures;" Mr. J. G. Haney, Oswego, manager of the fine Deming Ranch, graduate of the Kansas Agricultural College, who will talk on "Drainage of Farm Lands;" Mr. H. W. Van Leeuwen, Ottawa, one of the most successful dairymen and an expert cheesemaker, formerly instructor in the dairy department of the college; Mr. R. V. Hicks, editor of Poultry Culture, Topeka, and one of the leading poultry authorities in the United States, to talk on "Farm Poultry;" Mr. A. H. Leidigh of Reno County, a graduate of the college and for several years in charge of the Dry Land Experiment Station in Texas for the United States Department of Agriculture, to talk in Western Kansas on "Dry-Land Farming;" Mr. E. D. King of Coffey County, one of the half dozen best hog and sheep men in Kansas. Mr. King, like the others, will make a great sacrifice to devote one or two weeks talking to farmers on "Care in Breeding Hogs" and "More Sheep for Kansas." Two other practical farmers are considering the matter of helping in the work and if their business will permit they will help a few weeks in January and February.

The regular fall "campaign" of county institutes will open October 19, and Supt. J. H. Miller, of the Farmers' Institute Department, Manhattan, Kans., is arranging for two circuits for the four weeks beginning September 21. His new assistant, Mr. P. E. Crabtree, will conduct the eastern circuit including Lecompton, Lone Star, Eudora, Ottawa, Waverly. and five or six meetings in Anderson, Miama, and Franklin Counties and then two in Shawnee County with several open dates for points in Eastern Kansas where meeting are desired. Another circuit for the same period will be offered to the farmers in Central and Southern Kansas along the lines of the Rock Island and Santa Fe roads. Requests for meetings should be made very quickly as all dates should be fixed by September 15 or earlier.

To ethnologists and others interested in the ancient races of the Santa Fe Southwest, the Navajos, Pueblos, and other Indians who will attend the National Irrigation Congress, Albuquerque, N. M., September 29 to October 10; their manners and customs; their manufactures of blankets, pottery, jewelry, etc.; their costumes;



Value of Property in Each of the Counties of Kansas Assessed for March 1, 1908. Total, \$2,488,401,075.89.

their odd ceremonies; their horsemanship; their implements of domestic use; and relics of ancient warfare, will be especially interesting. Contrasted with these, the students of the several Indian schools of the Southwest will be present; object lessons of what modern education can do even for the Indian. To attract the tribal Indians to the Congress, many prizes have been offered.

Miscellany

Object Lessons of Irrigation.

The National Irrigation Congress and the International Exposition, Alburquerque, September 29 October 10, properly are joined in one big event. For the Exposition, with all the fruits of the soil, grown in the desert by the touch of water, is a practical lesson of irrigation. Really, the exposition will attract the attention of visitors from the Eastern States and from South Africa, Asia, and South Europe, more than the Congress will. For irrigation is centuries old, but its application in America is comparitively new, and visitors from remote States and foreign countries will want to be shown.

So the managers of the exposition are sparing no pains to make of it the biggest agricultural and live-stock show in the Mountain West, East of the San Joaquin Valley. They propose to give a practical lesson of the value of irrigation in the form of orchard and field crops, forage, cotton, and, even pure-bred live-stock, grown in the desert by the artificial application of water. These exhibits will include oranges, lemons, pomeloes, figs, dates, and olives from the irrigated valleys of Southern Arizona; and the more hardy orchard and field crops, cotton, beet, sugar, and live-stock from all over the so called desert These products, especially West. the orchard fruits, not only will be shown, but they will be in such abundance that visitors may eat thereof and judge of their excellence. Every valley and section of the Mountain West will be represented in these exhibits.

Studies for the Eighth Grade.

EDITOR KANSAS FARMER: — What studies constitute the eighth grade in the common school? Can higher studies be legally taught?

Shawnee County. A READER.

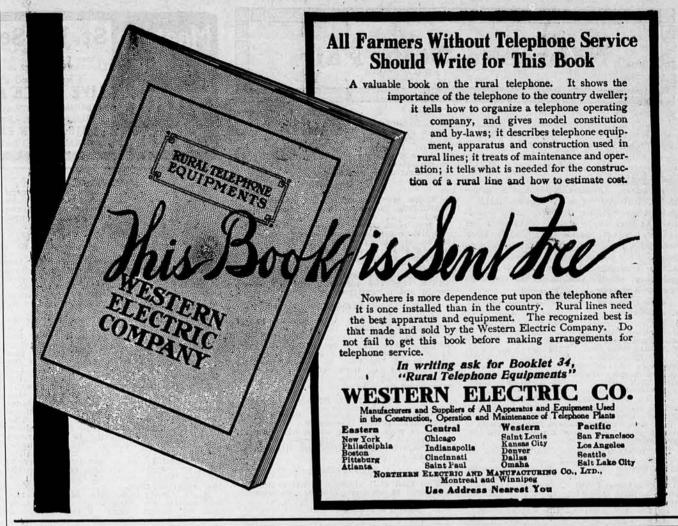
The studies required for the eighth grade in the common school are found on pages 80 to 86 of the Course of Study for the common schools of Kansas for the year 1907.

The studies for the year 1907-03 were: Classics, grammar, arithmetic, geography, history, spelling, and writing. The general exercises such as calisthenics, music, drawing, current events, morals, and manners and also agriculture are also to be given some attention.

The plan of the Course of Study provides for the alternation by years of the subjects prescribed for the eighth and ninth grades. High school subjects can legally be taught in any of the common schools of the State, but, ordinarily, such subjects should not be undertaken without provision being made for more than one teacher.

Talks of a Billion People in the United States.

Leigh R. Freeman, managing editor of the Northwest Farm and Home, published at North Yakima, Wash., known in that section as the "father and mother of irrigation," takes an active interest in the forthcoming National Irrigation Congress, Albuquerque, N. M., September 29 to October 10. It was Mr. Freeman who went to the Boise Congress with the slogan, "We are coming Father Teddy for 300 million more!" That song is in his heart this year, and incidentally he has a boom for North Yakima to get the next meting of the Congress. He also favors a resolution advocating



chairs of irrigation in Western Colleges, and it is likely that by his efforts the Washington State University will have one. With these schemes in mind, Mr. Freeman and a strong delegation are coming from Washington to the Albuquerque Congress. In a letter to the Board of Control, Mr. Freeman has this to say on the subject of more and larger appropriations for irrigation:

"Roosevelt is asking for a half million dollars for the Mississippi waterway, while Hobson asks for a half billion for the Navy. We say put these two half billions together, and give us a billion direct appropriation by Congress for National irrigation for every State in the Uuion, and we will show you one billion white men under the Stars and Stripes, and then we will need no navy to bluff Japan, or any other Nation or combination of Nations. Irrigation is the paramount issue before the American people, and will do more to build new homes than did the homestead law; in fact, more than all the other land laws combined."

Census Returns of Assessors.

F. D. COBURN, SECRETARY.

Census returns of assessors, forwarded by county clerks to the State Board of Agriculture, indicate that the growth in Kansas' population in

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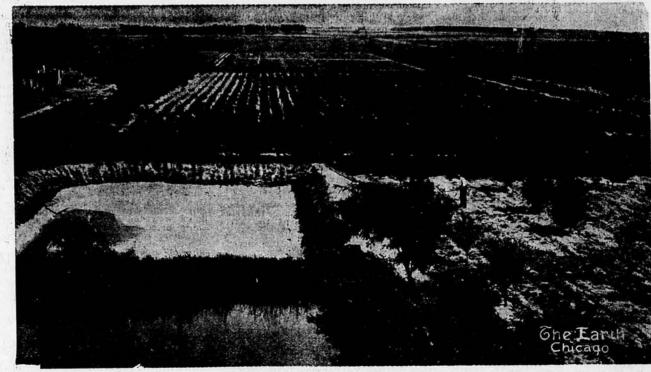
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the year ending March 1 was mostly in the rural districts, instead of in the cities as was the case in 1907, when about two-thirds of the net increase of the State was reported in the cities and towns of 1,000 or more inhabitants.

This year the municipalities belonging to such list number 131, or one less than in 1907, and their net increase has been 788, or less than 12 per cent of the increase (6,639) for the entire State. Seventy municipalities show an aggregate gain of 19,005, and 60 a decrease of 18,217,

while Nickerson neither gained or lost. Wichita reports the largest increase, 3,762, followed by Great Bend with a gain of 1,384, Caney 1,121, and Manhattan 1,042. Wamego shows the smallest increase—6. The Cowley County officials certify to a loss of 2,104 in Winfield, which is the largest decrease. As in 1906, there are 13 cities having 10,000 or more inhabitants each, Emporia having dropped below that figure since 1907, and the combined population of the thirteen represents a little over 19 per cent of

(Continued on page 962.)



Irrigation in the Southwest-Along the Santa Fe.

Nebraska State Fair

Again the Nebraska State Fair has proved itself to be one of the greatest State fairs of the West. With western agriculture advancing so fast it is necessary for a fair to take great strides each year to maintain a place among the leaders. Under the present management, however, the Nebraska Fair is more than holding its own. New buildings appear every year. This year the much needed cattle barn has been erected. This barn is built of brick and paved with cement and is provided with ample drainage. It was kept clean and sanitary. It is the finest of its kind that the writer has ever seen.

This year the exhibits of manufactur-

ers covered over fifty acres and more ers covered over fifty acres and more than one hundred different factories displayed their goods. Every kind of machinery and implements used in agriculture was found among the exhibits. One of the finest and most extensive displays that the writer has ever seen at any State fair was that of the Dempster Mili Mfg. Co., of Beatrice, Neb. This exhibit covered several acres showing the Dempster windmills, seed drills, cultivators, etc. The Dempster people had on display an irrigation plant and also an automobile cultivator which might be found anywhere on the grounds.

The Western Electric Company had on

The Western Electric Company had on exhibition everything needed in the construction of a country telephone

The Marshall Oil Company had two fine exhibits, showing their fine line of disinfecting dips.

In the big tent of the International Harvester Company was displayed the entire line of the agricultural implements handled by these people. There were two especially interesting features in this tent. One was the demonstration of twine making and the other of the International cream separator. Here a cow was milked and the cream separated.

Among the other most attractive ex-

the International cream separator. Here a cow was milked and the cream separated.

Among the other most attractive exhibits were the following: Reeves & Company, traction engines and thrashing machines; Superior Drill Company, the Wm. Galloway Co., manure spreaders, cream separators, etc.; Hart-Parr Co., gasoline and kerosene traction engines; DeLaval Cream Separator Co., and the Only Mfg. Co., nog waterer. On Wednesday afternoon it is estimated that the crowd reached the 42,000 mark. Those of this vast crowd who spent the biggest part of the week on the crowded fair grounds at Lincoln will not soon forget the willing attention and accommodations given them at the Administration building by Secretary Mellor and his assistants.

The 1908 stock show at the Nebraska State fair, while not the largest in numbers, will go down in history as one of the best stock shows ever held in the State. Nearly all the classes were filled. Some of them very large. The new cattle barn is one of the best we ever saw, and the fair management is to be praised for securing such a barn with the new stock-judging pavilion which the management expect to have ready by next year, when the Nebraska State Fair grounds will be in good shape to handle its large exhibit of live stock.

The officers, heads of departments, and assistants are gentlemen and understand their work, not one word of complaint did we hear from any source. With perhaps one exception everything went off satisfactory to every one. In keeping the people back from the animals while the judges were making the awards the management was at fault. At times the judges could hardly see two animals at a time which made it very hard for the judges to place the awards. With the proper arrangement for keeping the crowds back this could have been avoided.

This was mostly a Nebraska stock exhibit, as most of the stock was owned in Nebraska, although some of the good herds was from other States which helped to make the show more interesting.

helped to make the show more interesting.

In point of numbers the Shorthorns where more than any other breed of cattle, numbering 147 head with the exception of the aged bull class which was not very strong. The classes were well filled with high class animals, making a show equal to the State fairs farther East. The exhibitors that figure most in the prize list were T. K. Tomson & Sons, Dover, Kans.; A. C. Shallenberger, Alma, Neb.; Flynn Farm Co., Des Moines; Thomas Andrews, Cambridge, Neb.; Everett Hayes, Hiawatha, Kans., and Geo. H. White, Emerson, Iowa.

Prof. H. R. Smith, Lincoln, Neb., tied

watha, Kans., and Geo. H. White, Emerson, Iowa.

Prof. H. R. Smith, Lincoln, Neb., tied the ribbons and we know of no one that could have done better work in picking out the good ones. Some of the classes were large and close but when the judge placed the winners the good ones had been placed where they belonged. In the young herd and get of bull classes the first and second prizes could have been changed but they were very

classes the first and second prize tour have been changed but they were very close.

The first prize aged cow. College Mary, is a grand animal, and ought to get close to the championship at the Royal this fall.

HEREFORDS.

The Hereford show was not large in number, about 80 head, but the quality was good. The strong fight was between Mousel Bros. Cambridge, Neb., and Cornish & Patten, Osborne, Mo., two well known breeders and show firms. G. G. Clements, Ord. Neb.; Aldrich Stock Farm, David City, Neb., and G.

Von Seggern, Wesner, Neb., showed some good cattle and took their share of the premiums. Thomas Clark, Beecher, Ill, tied the ribbons in this class, and his work gave satisfaction for there is no better judge and breeder of Hereford cattle in America.

ANGUS.

There were more Angus shown than Herefords, but the quality was not as good, about 85 head. Outside of eight or ten head this show was in breeding condition and did not carry flesh and finish enough for show animals. The strong show in this breed was made by Harrison & Harrison, Indianola, Neb., J. W. McClurg, of the same place, and W. J. Miller, Mets, Iowa. Mr. Thos. Clark tied the ribbons and his work could not be critised.

GALLOWAYS.

There were but two exhibitors of Galloways, Straub Bros., Avoca, Neb., and J. A. Bales & Son, Stockport, Iowa, but the breed made up in quality what it lacked in numbers for we consider this breed the best in quality for its numbers of and breed there. Professor Smith placed the awards and his work was good as it always is.

POLLED DURHAMS.

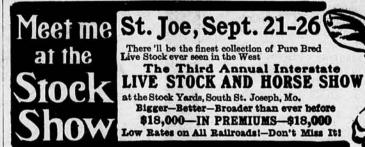
Polled Durhams were shown from Nebraska, Iowa, Wisconsin, and Indi-ana. It was a strong show all through the winners in most all cases were in-dividuals of high merit and high class animals of the breed.

RED POLLS.

The Red Poll show was all from Nebraska. It was a good representation of the breed, showing the general purpose animal more than the beef or dairy

DAIRY BREEDS.

The exhibitors of Jerseys were all from Nobraska. Hunter & Smith, Beartrice and Lincoln; H. C. Young and Honeywell & Reedy both from Lincoln.



Meet me St. Joe, Sept. 21-26

\$18,000—IN PREMIUMS—\$18,000 Low Rates on All Railroads!—Don't Miss It!



Not very many coach horses were shown, but some good ones brought out. The Lincoln Imp. Horse Co.; Frank Iams, and Taylor & Jones, winning most of the ribbons. W. E. Pritchard placed the awards.

THE HOG SHOW.

THE HOG SHOW.

Nebraska State Fair is noted for the number and quality of its hog show The number was not quite up to last year but quality perhaps better, especially in the Duroc classs, the Durocs out numbering the Poland-Chinas by about 200 head.

We think the management is making a serious mistake in not giving the bacon breeds a classification. The bacon hog has come to stay and is getting more popular every year for it has proved itself to be a money-maker for the breeder and feeder. We hope the Nebraska State Fair will next year give the bacon breeds a classification worthy of the breed. The show this year was most all from Nebraska, as few came from outside the State. At this show the large Poland-China is king. The breeders of the small type do not show here. Size and quality is what pays the pure-bred breeder. Size was here, plenty of it, but not as much quality as we would like to see in this breed. Most of the prize winners showed quality and finish, some of them equal to the smaller type.

N. H. Gentry, Sedalia, Mo., tied the ribbons in his quick business-like way and we heard very little criticism among the breeders. The classes were large and some animals that did not fi outd: Wetls... shrdl shrdl hrd hrdl get inside the money were very high class and showed up well for the breeder. The senior boar class was one of the strong ones of this breed. Collosus

won the special \$50 cup offered by the Berkshire Record Company for best pigs in the State. N. H. Gentry tied the ribbons in this class.

CHESTER-WHITES.

The Chester-Whites were out in larger numbers than the Berkshires, being 135 in the barns, most all from Nebraska, one exhibitor from Iowa and one from Missouri. The general exhibit was a good, useful lot of hogs, those that got inside the money had to be well fitted with quality and breed type. T.W. Miller, Menlo, Iowa, judged this class. The champion boar and sow both going to L. C. Reese, Prescott, Iowa.

SHEEP.

There were 125 head of sheep in the barn representing seven breeds. Robert Taylor, Abbott, Neb., showed Hampshire, Leicesters, and Rambouillets without any competitor. Geo. Allen and Wm. H. Allen, of Lexington, Neb., showed Southdowns and divided the money, the most going to Geo. Allen. Geo. Allen and M. and L. E. Bauer, Jameson, Mo., showed Shropshires and divided the money about even. Wm. L. Gove, Cheney, Neb., was the only exhibitor of Delaine Merihoes. Damrow Bros., Lincoln, Neb., and W. W. Waltmire, Peculiar, Mo., showed Oxfords, Damrow Bros., winning both champions. S. J. Botts showed the only Hampshire and won all the ribbons.

EXHIBITORS AND AWARDS.

Horse Department.

PERCHERONS AND FRENCH DRAFT.

Aged stallions, 14 entries—1, Iams, on Medoc; 2, Iams, on Valny; Taylor & Jones, on Rabzi-well; 4, North & Robinson, on Mascaret. Three-year-old stallion, 15 entries—1, Taylor & Jones, on Brilliant D; 2, Lincoln Imp. Horse Co., on Audoin; 3, Iams, on Castelain; 4, Iams, on Goblet.

Two-year-old stallions, 8 entries—1, Watson Woods Bros., & Kelley, on Garfield; 2, Iams, on Glaise; 3, Rhea Bros., on Hobson; 4, Taylor & Jones, on Briggs.

Yearling stallions, 2 entries—1, Taylor & Jones, on Prosper; 2, Rhea Bros., on Baxter. Aged mares, 4 entries—1, Iams, on Aubepine; 2, Iams, on Renande; 3, Iams, on Polka; 4, Iams, on Mazurka.

Three-year-old mares, 3 entries—1, Burress Bros., on Flora; 2, Burress Bros., on Friponne; 3, Iams.

Two-year-old mares, 2 entries—1, Iams, on Grotte; 2, Iams, on Gallienne.
Champion stallion, 3 entries—Taylor & Jones, on Brilliant D,
Champion mare, 3 entries—Iams, on Aube-

AMERICAN BRED PERCHERONS AND DRAFTS.

Aged stallion, 4 entries—1, Taylor & Jones, Putnam; 2, Rhea Bros., on Lorida 2d; 3, P. Hendershot, on Humbert; 4, O. P. Hen-rshot, on Billa Burkhart.

Three-year-old stallion, 4 entries—1, Rhea Bros., on Jupiter; 2, Hendershot, on Searle; 3, Rhea Bros., on Marshall; 4, Finch Bros., on Ivanhoe.

Two-year-old stallion, 4 entries—1, Rhea Bros., on Big Boy; 2, Rhea Bros., on Nelson; 3, Hendershot, on Tourbrillou; 4, Harrison, on Colonel Lawton.
Yearling stallion, 5 entries—1, Hendershot, on Sunshine; 2, Rhea Bros., on Jake; 3, North & Robinson, on Pascal; 4, Rhea Bros., on Superior.

& Robinson, on Pascal; 4, Rhea Bros., on Superior.
Stallion colts, 3 entries—1, Hendershot, on King Monis; 2, Wm. Bute, on Rob Roy; 3, Harrison, on Brilliant.

Aged mares, 5 entries—1, North & Robinson, on Nora; 2, Wm. Bute, on Daisy; 3, Rhea Bros., on Queen; 4, Harrison, on Rosetta.

Two-year-old bred, 2 entries—1, North & Robinson, on Lenora; 2, Harrison, on Lone Star.

Mare colt, 2 entries—1, North & Robinson; 2. Harrison.

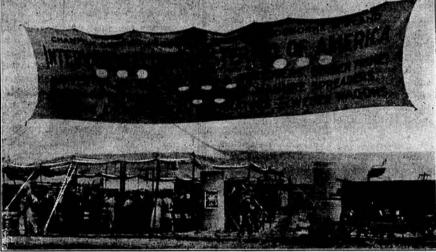
Yearling mare, 1 entry-Harrison, Queen Vic-Champion Stallion, 5 entries—Taylor & Jones, on Putnam.
Champion mare, 4 entries—North & Robinson, on Lenora.

SPECIAL PRIZES BY PERCHERON SOCIETY OF AMERICA.

Judge-W. E. Pritchard, Ottawa, Ill. Best American bred stallion-1, Taylor, on Brilliant D; 2, Taylor, on Putnam 2d. Best American bred mare-1, North & Robin-son, on Lenore; 2, North & Robinson, on Nora.

Champion stallion, open class—1, Taylor & Jones, on Brilliant D; 2, Taylor & Jones, on Putnam 2d. Putnam 2d.
Champion mare, open class—1, Iams, on Aubepine; 2, North and Robinson, on Lenore.
Best 5 stallions owned by exhibitor—1, Taylor & Jones; 2, Iams.
Best 3 mares owned by exhibitor—1, Iams; 2, North & Robinson.

North & Robinson.
 Best American bred 5 stallions owned by exhibitor—1, Taylor & Jones; 2, Rhea Bros.
 Best American bred 3 mares owned by exhibitor—1, North & Robinson; 2, J. N. Har-



International Harvester Company's Display at the Nebraska State Fair.

It was a good representation of the Jersey cattle, some of them being very high class individuals. Most of the ribbons in this breed went to Messrs. Hunter & Smith. Prof. H. G. Van Pelt, from Ames, Iowa, tied the ribbons. His work throughout was good, but we could hardly agree with him in placing the yearling heifer Gales Queen over Emanon Tootsey, the latter was the best dairy form, had the best udder, teats, and milk veins, with the best handling qualities, but was a little old fashioned in head while Gales Queen had a beautiful head and more size.

HOLSTEINS.

The Holstein show was made up of three Nebraska herds, and one from Kansas. The Nebraska stock was shown in just breeding condition and could not compete successfully with the show herd brought out by C. F. Stone, Peabody, Kans. This herd showed in good form and took most of the ribbons. Prof. Van Peit placed the awards, which was entirely satisfactory.

GUERNSEYS.

Only one Guernsey was shown, and of course took all the ribbons. H. C. Young, Lincoln, Neb., was the exhibitor. THE HORSE SHOW.

The show of draft horses was a show long to be remembered for the size, quality, and draft type of the three classes.

PERCHERONS AND FRENCH DRAFT, BELGIN, AND SHIRES AND CLYDES.

AND SHIRES AND CLYDES.

The exhibitors were all from Nebraska except two from Illinois. The Illinois exhibitors brought out some good
stuff and took away some of the most
valuable prizes.

Frank Iams, St. Paul, Neb., showed
a lot of good ones as he always does
and captured a great many of the best
prizes. Watson Woods Bros., and Kelley, Lincoln Importing Horse Company,
and O. P. Hendershot, showed some
good ones and got their share of the
ribbons.

W. E. Pritchard, Ottawa, Ill., tied the
ribbons.

129077 carried off the honors in this class for the Dawsons. He is from the Expansion family and will be heard from later on. The sow class brought out some good ones. Among the lot was the aged and yearlings shown by Jos. Schmidt & Son, of Wymore, Neb. These sows were large, nicely fitted, and full of quality and took the highest honors in their classes.

DUROCS.

The show of Duroc-Jerseys was a grand lot, and speaks well for the exhibitors of this breed. The Durocs here were a better lot than were shown at Des Moines the week before. They were a more uniform type and carried more quality and finish. The classes were large, up to nearly 100 in the pig classes under 6 months.

The man that was able to get inside was lucky for a whole lot of good ones had to be left out. This class was judged by Prof. E. A. Burnett, who took plenty of time and when he got through the good ones were on too. The champlenty of time and when he got through the good ones were on top. The champion show boar was Crimson Wonder 3d, shown by Steele & Smith. This is a wonderful hog. We don't know where you could get another like him. The champion sow, Morton Rose, was bred and shown by Briggs & Sons, Clay Center, Neb. The junior boar pig class was a very strong one, 71 pigs in the ring. The first prize went to H. S. Allen & Sells on a Crimson Wonder Again pig. This was one of the best Duroc pigs we ever saw and was sold at a long price to that well known Duroc breeder, John M. Morrison, College View, Neb. Second and fifth prizes in this class went to W. F. Waldo & Bros., DeWitt, Neb., on two very choice pigs sired by Top Notcher and I Challenge You.

BERKSHIRES.

The Berkshires were 73 strong, mostly from Nebraska, with but two exhibitors from Iowa. This was a good representative show of the breed and brought out some right good individuals. Nebraska carried off most of the ribbons. The champion boar was Nebraska Longfellow owned by J. P. Scherzinger, Nora, Neb., and the champion sow to W. R. Holt, Falls City, Neb., on Tikle's Model. Mr. Holt also

Best stud stallion and 4 mares—1, North & oblinson; 2, Iams.
Best stud. stallion, and 4 mares bred and whed by exhibitor—1, North & Robinson; 2, Robinson; 2, Iar Best stud, ste owned by exhib J. N. Harrison.

SHIRES.

CLYDES AND SHIRES.

CLYDES AND SHIRES.

Judge—W. E. Pritchard, Ottawa, Ill.
Aged stallion, 5 entries—1, Taylor & Jones,
on Hanley's Defiance; 2, Watson Woods Bros.
& Kelley, on Togo; 3, Taylor & Jones, on Harold's Helr; 4, Finch Bros., on David Harrison.
Three-year-old stallion, 6 entries—1, Watson
Woods Bros. & Kelley, on Tenside Victor
King; 2, Taylor & Jones, on King Alfred; 3,
North & Robinson, on Wonderlande Topsman;
4, Finch Bros., on Justice.
Two-year-old stallion, 7 entries—1, Watson
Woods Bros. & Kelley, on Nailstone Herald;
2, North & Robinson, on Manitou; 3, North &
Robinson, on Goliath; 4, Finch Bros., on Joliet
Black Jack.

Robinson, on Golden Black Jack, Yearling stallion, 1 entry—Finch Bros, on

Darlington. Champion stallion—Taylor & Jones, on Mars-Defiance.

BELGIAN HORSES.

Judge—W. E. Pritchard, Ottawa, Ill.
Finch Bros. Joliet. Ill. 2
Taylor & Jones. Williamsville. Ill. 3
O. P. Hendershot, Hebron. Neb. 1
Surress Bros. Carroll, Neb. 5
Frank Iams, St. Paul, Neb. 9
Watson Woods Bros. & Kelley, Lincoln.
Neb. 1
North & Robinson, Grand Island, Neb. 2
LeRoy Judd, Dawson, Neb. 1

Three-year-old stallions, 4 entries—1, Taylor Jones, on Debonaisse; 2, Iams, on Espoir; Iams, on McMahon; 4, Finch Bros., on

Strgoyne, Aged stallion, 9 entries—1, Iams, on Goliale;
2. Taylor & Jones, on Pasport; 3, Iams, on Bienan as Bouşsart; 4, Finch, on Bismarck.
Two-year-old stallion, 7 entries—1, Taylor & Jones, on Mikado; 2, Iams, on Grippe.
Aged mare—Burress Bros., on Laura de Rollingham.

lingham.

Three-year-old mare—1, Burress Bros., on Dora de Courtier.

Two-year-old mare—Burress Bros., on Rosette de Cortal.

Champion stallion, 3 entries—Taylor & Jones, on Debonaisse.

Champion mare, 3 entries—Burress Bros., on Laura de Rothingham.

ALL COACHES.

ALL COACHES.

Judge—W. E. Pritchard, Ottawa, Ill.
Aged coaches, 4 entries—1, Lincoln Imp.
Horse Co., on Lubben's Ringleader; 2, Lincoln
Imp. Horse Co., on Lubben's Pilot; 3, Lincoln Imp, Horse Co., on Zanardelle; 4, Lincoln Imp, Horse Co., on Emil.

Three-year-old stallion, 2 entries—1, Iams,
on Ambulant: 2, Iams, on Colorado.

Two-year-old stallion, 1 entry—Taylor &
Jones, on Mannon.

Champion stallion, 3 entries—Lincoln Imp.
Horse Co., on Lubben's Ringleader.

HACKNEYS.

Judge-W. E. Pritchard, Ottawa, Ill. James McCleave won everything in Hack-ASSES.

Judge—W. E. Pritchard, Ottawa, Ill.
Three-year-old jacks—I, O. P. Hendershot, on
Reed: 2. Varney Bros. & Ehler, on Brilliantine.
Two-year-old jacks—O. P. Hendershot, on
Florida.
Champion jack—O. P. Hendershot, on Florida.

Cattle Department. SHORTHORNS

J. G. Brenizer, Broken Bow, Neb 8
Lill Bros Trumbull Neb 1
C. A. Barnard, Filley, Neb
C. A. Barnard, Filley, Neb
Peck & Rethwick, Ft. Calhoun, Neb
C F. Mitchell & Son, Farragut, lowa
Geo. H. White, Emerson, Iowa
H. K. Frantz, Uni Place, Neb
Chas, Hitchie, Gresham, Neb
Owen Kane, Wisner, Neb
Howell Reese & Son, Wisner, Neb 2
S. A. Nelson, Malcom, Neb
W. H. McLaughlin, Shelby, Neb 1
I T Frederick Memphis, Neb 1
Randolph, Egger, Roca, Neb
Chas D Walcht Okato Kans 1
Thomas Andrews, Cambridge, Neb
A R Wilson & Sons, Belvidere, Neb
J. F. Stevenson, Hancock, Iowa 1
Flynn Farm, Des Moines, Iowa
Everette Hayes, Hiawatha, Kans
C. W. Dawes, Harian, Iowa
G. H. Hasebrook, Bladen, Neb. 5 A. C. Shallenberger, Alma, Neb. 10
Total,
10tal, 1111

Two-year-old heifer, 7 entries—1, Tomson & Son, on Delightful; 2, White, on Julia C; 3, Flynn Farm Co., on Fashions Roan; 4, Hasebrook, on Clara Belle; 5, Brenizer, on Bouffe Lily

Lily.
Senior yearling heifer, 7 entries—1, Thomas, on Christmas Lassie; 2, Andrews, on Ethel; 3, White, on Maple Hill Ruby; 4, Wilson & Son, on Cedar Hill Mary; 5, Davis & Son, on Victoria Ted.

Victoria Ted.

Aged cow, 6 entries—1, Tomson & Son, on College Mary; 2, White, on Toverira; 3, Hayes, on Giace; 4, Kane, on Lady Fragrant; 5, Flynn Farm Co., on Anoka Broadhooker.

Produce of cow—1, Tomson, on 2d Duchess of Norwood; 2, Hasebrook, on Mary Belle; 3, Shallenberger, on Butterfly Jubilee; 4, Tomson, on Victoria of Maple Hill; 5, Brenizer, on Queen Nonparieli.

Get of sire—1, Shallenberger; 2, Tomson & Son; 3, Tomson & Son; 4, Shallenberger; 5, Brenizer; 5

Get or Silvan & Son; 4, Shallenberger; 2, Shallenberger; 2, Calf herd, 3 entries—1, Shallenberger; 2, Tomson; 3, Dawes & Son.
On calf herd, 3 entries—1, Shallenberger, headed by Royal Rex; 2, Tomson, headed by Director; 3, Dawes & Son, headed by Ringmaster.

master.
Get of sire—1, Shallenberger, on Imp. Diamond Rex: 2, Tomson & Son, on Gallant Knight; 3, Tomson & Son, on Archer: 4, Shallenberger, on Imp. Diamond Rex; 5, Brenizer, on Crimson Scot.
Junior champion cow, 4 entries—Hasebrook, on Grand Belle.
Grand champion cow, 2 entries—Tonson, on

champion cow, 2 entries-Ton son, on

Aged herd, 4 entries—1, Tomson, c.: Lord Norfolk; 2, White, on The Dreamer; 3, Flynn Farm Co., on The City Marshall.

Young herd, 4 entries—1, Shallenberger; 2, omson; 3, Andrews; 4, Flynn Farm Co.; 5, Tomson; 3, Andrews, 3, Espain Dawes & Sons. Aged bullJolly Hampton; 2, C. A. Filley, on Jolly Hampton; 2, C. A. Barnard, Filley, Neb., on Glositer's Crown; 3, Frantz, on Lavender

Victor.

Junior heifer calf—1, Shallenberger, on Miss Nelson; 2, Shallenberger, on Maud 51st; 3, White, on Hampton Lady; 4, Tomson & Sons, on Velma; 5, Flynn Farm Co., on Sultan F. Senior champion bull, 2 entries—Kane, on Gondomar.

Senior champion buil, 2 entries—Rane, on Gondomar.

Jnior champion buil, 2 entries—Reese & Sons, on Ruberta's Goods.

Grand champion buil, 2 entries—Reese & Sons, on Ruberta's Goods.

Champion aged cow, 2 entries—Tomson & Sons, on Delightful.

Senior buil calf, 15 entries—1, Fynnn Farm Co., on Lovat Champion F: 2, Mitchell & Son, on Scottish Goods; 3, Dawes & Son, on Ringmaster: 4. Tomson & Son, on Director; 5, Chappell, on Missier's Wonder.

Junior buil calf, 10 entries—1, Shallenberger, on Royal Rex; 2, Shallenberger, on King of Diamonds; 3, Brenizer, on Missier's Scott; 4, Hasebrook, on Elector; 5, Brenizer, on Crimson Lad.

Senior heifer calf—1, Tomson & Son, on Van-ity: 2, Kane, on Choice Girl: 3, Flynn Farm Co., on Countess F: 4, Shallenberger, on Blush-ing Beauty: 5, Shallenberger, on Belle of the

ing Beauty; 5, Shallenberger, on Belle of the Season.

Junior helfer yearling—1, Hasebrook, on Grand Belle; 2, Shallenberger, on Bonnie Gem; 3, Andrews. on Isabella Princess; 4. Shallenberger, on Rosy Morning; 5, Flynn Farm Co., on Graceful Lady.

Two-year-old bull, 10 entries—1, Owen Kane, on Glondomar; 2, White. on The Dreamer; 3, Mitchell, on Acanthus King.

Senior yearling bull, 7 entries—1, Reese & Son, on Ruberta's Goods; 2, Stevenson, on Pinehurst Champion; 3, Tomson & Sons, on Pinehurst Champion; 3, Tomson & Sons, on Fragrant; 5, Frederick, on Royal Banner.

Junior yearling bull—1, Feck & Rethwisch, on Lord of Hilliorott; 2, Andrews & Son, on Royal Diadem; 3, Brenizer, on Crimson King; 4, McLaughlin, on Nonpariel.

HEREFORDS.

 O. E. Green, Genoa, Neb.
 1

 Cornish & Patten, Osborn, Mo
 10

 Minter Bros., Craig, Neb.
 10

 Aldrich Stock Farm, David City, Neb.
 6

 J. G. Von Seggern, Wisner, Neb.
 7

 Geo. Darwin, Virgina, Neb.
 1

 Mousel Bros., Cambridge, Neb.
 11

 G. G. Clements, Ord, Neb.
 12

Judge—Thomas Clark, Beecher, Ill. Senior yearling heifer, 3 entries—1, Mousel

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SEARS, ROEBUCK & CO., CHICAGO, ILL.

Grand champion cow, 2 entries—Mousel Bros., on Miss Princeps 8th,

ADDITIONAL AWARDS. Produce of cow-1, Clements; 2, Cornish &

POLLED DURHAMS.

Aged bull, 4 entries—1, Shaver & Deuker, on Roan Hero; 2, Huntley & Sons, on Champion of Iowa; 3, Smiley, on Victoria Lad; 4, Armstrong, on Wild Eyes Secret.

Two-year-old bull, 4 entries—1, Deuker & Shaver, on Arcadia Duke; 2, Hadley, on Buttonwood Marshal; 3, Luckey & Kitter, on Joker; 4, Smiley, on Lulu's Tip.

Senior yearling bull, 2 entries—1, Huntley, on Amity Bruce; 2, Frederick, on Baron Lester.

Junior yearling bull, 4 entries—1, Deuker &



A View of the Manufacturers Exhibits at the Nebraska State Fair.

Bros., on Jennie; 2, Clement, on Treasure; 3, Aldrich, on Lily Sailor.

Junior yearling heifer, 6 entries—1, Mousel Bros, on Missouri Queen; 2, Von Seggern, on Kathleen 2d; 3, Minier Bros., on Dew Drop; 4, Clement, on Vivian; 5, Von Seggern, on Shadilandi's Pride.

Senior heifer calf, 7 entries—1, Cornish & Patten, on Mystic; 2, Minier Bros., on Petunia; 3, Cornish & Patten, on Florence Stamp; 4, Von Seggern, on Miss Columbia; 5, Clement, on Vilvet.

on Vilvet.

Aged bulls, 6 entries—1, Cornish & Patten, on Western Anxiety; 2, Clement, on Fast Freight; 3, Minier Bros., on Monarch; 4, Green, on Beau Mischief; 5, Aldrich, on Tommy B, Senior yearling bull, 2 entries—1, Cornish & Patten, on Gomez Perfection; 2, Clement, on Comrade 2d.

Junior vaculing bull, 2 entries—1

Comrade 2d.
Junior yearling bull, 3 entries—1, Von Seg-gren, on Columbus, Jr.; 2, Cornish & Patten, on General Worley; 3, Darwin, on General

on General Worley; 3, Darwin, on General Fenwick.
Senior bull calf, 7 entries—1, Mousel Bros., on Preceps 30th; 2, Cornish & Patten, on Beau Weston; 3, Minier Bros., on Diamond; 4, Clements, on Anxiety All; 5, Von Seggren, on Columbus K.

lumbus K., junior bull calf, 2 entries—1, Mousel Bros., Harold; 2, Cornish & Patten, on Anxiety

on Harold; 2, Cornish & Patten, on Anxiety Stamp.

Junior heifer calf, 10 entries—1, Cornish & Patten, on Ruby 2d; 2, Mousel Bros., on Missour! Queen 3d; 3, Minier Bros., on Lady; 4, Mousel Bros., on Princeps Lassie 2d; 5, Clement, on Viva.

Exhibitor's aged herd, 2 entries—1, Mousel Bros., on Alto Hesiod; 2, Clement, on Fast Freight.

Breeders' young herd, 1 entry—Clement, on Anxiety All.

Calf herd, 3 entries—1, Cornish & Patten; 2, Minier Bros.; 3, Clement.

Two-year-old bull, 3 entries—1, Cornish & Patten, on Beau Carlos; 2, Mousel Bros., on Alto Hesiod; 3, Mousel Bros., on Princeps 4th.

Aged cow, 5 entries—1, Mousel Bros., on Princeps Lassie; 2, Von Seggren, on Mayflower; 3, Mousel Bros., on Wilton Maid; 4, Clement. on Princeps Flossie; 5, Aldrich, on English Lady.

Princeps Bassie; 2, von Segaren, on Manayan, er; 3, Mousel Bros., on Wilton Mald; 4, Clement. on Princeps Flossie; 5, Aldrich, on English Lady,
Two-year-old cows, 6 entries—1, Mousel Bros., on Miss Princeps 8th; 2, Von Seggren, on Modesty; 3, Clement, on Golden Lassie; 4, Aldrich, on Flirt.
Get of sire, 3 entries—1. Cornish & Patten, on Weston Stamp 16th; 2, Clement, on Fast Freight; 3, Minier Bros., on Monarch.
Senior champion bull, 2 entries—Cornish & Patten, on Beau Carlos.
Junior champion bull, 4 entries—Mousel Bros., on Princeps 36th.
Grand champion bull—Cornish & Patten, on Beau Carlos.
Senior champion cow, 2 entries—Mousel Bros., on Miss Princeps 8th.
Junior champion cow, 4 entries—Mousel Bros., on Missouri Queen 2d.

Shaver, on Leepbrain Prize; 2, Smiley, on Walnut Grove Tip; 3, Huntley & Sons, on Don Carlos; 4, Luckey & Kitter.
Senior bull calf, 5 entries—1, Hadley, on Buttonwood Tips 5th; 2, Deuker & Shaver, 3, Huntley & Sons, on Smith Marshall; 4, Hadley, on Buttonwood Tips 6th.
Junior bull calf, 4 entries—1, Dueker & Shaver, on Butterfly Boy; 2, Huntley & Son, on A Sceret; 3, Deuker & Shaver, on Hero's Duke; 4, Luckey & Kitter.
Aged cow, 8 entries—1, Deuker & Shaver, on Royal Flora; 2, Deuker & Shaver, on Scottish Belle; 3, Deuker & Shaver, on Straham Queen on Quyols.
Two-year-old heifer, 7 entries—1, Hadley, on Buttonwood Dutcher; 2, Deuker & Shaver, on Princess 2d; 4, Smiley, on White Stocking; 5, Huntley & Son, on Moss Rose 69th.
Young herd—1, Hadley; 2, Deuker & Shaver; 3, Huntley, on Buttonwood Tip 2d; 3, Huntley, on Carrie's Son, Produce of cow—1, Shaver & Deuker, on Scottish Bell; 2, Hadley, on Imp. Jenny Lind 24th; 3, Huntley, on Brunette Beauty.
Aged herd, 4 entries—1, Deuker & Shaver, on Roan Hero; 2, Hadley, on Buttonwood Marshall 19th; 3, Deuker & Shaver, on Roan Hero; 2, Hadley, on Buttonwood Marshall 19th; 3, Deuker & Shaver, on Roan Hero; 2, Hadley, on Buttonwood Marshall 19th; 3, Deuker & Shaver, on Roan Hero; 2, Hadley, on Buttonwood Marshall 19th; 3, Deuker & Shaver, on Arcadia Duke 3d.
Sentor yearling heifer, 7 entries—1, Hadley, on Buttonwood Jenny Lind; 2, Hadley, on Buttonwood Jenny Lind; 2, Hadley, on Buttonwood Jenny Lind; 2, Hadley, on Soct

Duke 3d.

Senior yearling heifer, 7 entres—I, Hadley, on Buttonwood Jenny Lind; 2, Hadley, on Buttonwood Maud; 3, Deuker & Shaver, on Scottish Belle: 4, Deuker & Shaver, on Hera's Maid; 5, Huntley & Son, on Victoria 90th.

Yearling heifer, 2 entries—I, Deuker & Shaver, on Hero's Maid; 2, Deuker & Shaver, on Scottish Maid.

Senior heifer calf, 6 entries—I, Hadley, on Buttonwood Gladiolus 3d; 2, Deuker & Shaver, on Orange Blossom; 3, Deuker & Shaver, on Orange Blossom; 3, Deuker & Shaver, on Buttonwood Jnny Lind; 4, Huntley & Sons, on Princess Carrie; 5, Deuker & Shaver, on Lora 2d.

Junior heifer calf, 4 entries-1, Hadley, on

Buttonwood Ophelia 3d; 2. Deuker & Shaver, on Orange Blossom; 3. Huntley & Sons, on Brunette Carrie; 4. Armstrong, Lady Rumple. Senior champion bull, 2 entries—Deuker & Shaver, on Roan Hero.
Junior champion bull, 4 entries—Hadley, on Buttonwood Tip 5th.
Grand champion bull, 2 entries—Deuker & Shaver, on Roan Hero.
Senior champion cow, 2 entries—Dueker & Shaver, on Royal Flora.
Junior champion cow, 2 entries—Hadley, on Buttonwood Jenny Lind 4th.

ABERDEEN-ANGUS.

Senior yearling bull, 2 entries—1, Miller, on Sir Novin; 2, Ehlers, on The Tooter.

Junior yearling bull, 4 entries—1, Auracher, on Shenandoah Herod; 2, Damrow Bros., on Hudson's Pride; 3, Syford, on Black Bugle; 4, Givens, on Haddo of Walton.

Senior bull calf, 3 entries—1, Harrison & Harrison, on Gay Preceps; 2, Miller; 3, Harrison.

Aged bulls, 4 entries—1, J. W. Miller, on Edamon of Quietdale; 2, Harrison & Harrison, on Squire of Theakston; 3, McClurg & Son, on Ernest; 4, Givens, on King Lawn.

Two-year-old bull, 1 entry—Damrow Bros.

Get of sire, 3 entries—1, Miller, on Black Prince of Estell; 2, McClurg, on Ernest; 3, Harrison & Harrison, on Blackbird Favorite Lad.

Produce of cow, 4 entries—1, Miller; 2, McClurg; 3, Harrison & Harrison; 4, Givens; 5, Damrow Bros.

Senior yearling heifer, 4 entries—1, McClurg, on Queen Miller of Sundance; 2, Miller, on Weed Lawn Pride; 3, McClurg, on Queen Mary of Sundance.

Grand champion cow, 2 entries—Deuker &

on Queen Miller of Sundance; 2, Miller, on Weed Lawn Fride; 3, McClurg, on Queen Mary of Sundance.

Grand champion cow, 2 entries—Deuker & Shaver, on Royal Fiora.

Junior ycarling heifer, 12 entries—1, Miller, on Queen Snowflakes; 2, Miller on Metz Coica; 3, Harrison & Harrison, on Alfalfa Blackbird; 4, Auracher, on Shenandoah Blanche; 5, Givens, on Valda Gratitude.

Junior buil calf, 6 entries—1, Miller, on King Snowflakes; 2, Damrow Bros.; 3, McClurg, on Sir Queenman of Soudana; 4, Damrow Bros.; 5, Givens, Aged cow, 12 entries—1, Miller, on Gussie; 2, Auracher, on Shenandoah Belle: 3, Harrison & Harrison, on Alfalfa Queen 3d; 4, McClurg & Son, on Sunny South Haddo 2d. Two-year-old heifers, 4 entries—1, Miller on Allica Sth; 2, Miller, on Queen Snowflakes; 3, Harrison & Harrison, on Alfalfa Pride; 4, Syford, on Olin's Pride.

Junior cow, 4 entries—1, Miller, on Queen Snowflakes.
Grand champion cow, 2 entries—Miller, on

nowflakes.

Grand champion cow, 2 entries—Miller, on

Gussle, Exhibitor's aged herd, 2 entries—1, Miller, on Eglamore of Quietdale; 2, Harrison & Harrison, on Squire of Theokston.

Breeders' young herd, 3 entries—1, Miller, on Sir Novin 2d; 2, ——; 3, Givens, on Haddo of Walton.

Sir Novin 2d; 2, —; 3, Givens, on Haddo of Walton.
Junior heifer calf, 8 entries—1, Harrison & Harrison, on Alfalfa Erica; 2, Miller, on Metz Beauty; 3, Givens; 4, Harrison & Harrison, on Alfalfa B 5th: 5, Givens.
Senior champion bull, 1 entry—Miller, on Eglamore of Quietdale.
Junior champion bull, 4 entries—Miller, on King Snowfakes.
Grand champion bull, 2 entries—Miller, Eglamore of Quietdale.
Senior champion cow, 2 entries—Miller, on Gussie.

GALLOWAYS.

Aged bull, 1 entry-Bayles & Son, on Wiles

Two-year-old, 2 entries—1, Straub Bros., on Champion of Tabroch; 2, Straub Bros., on Com-

Champion of Tabroch; z, Straub Bros., opact.
Senior yearling bull, 1 entry—Straub Bros., on Utility.
Junior yearling heifer. 3 entries—1. Straub Bros., on Princess Standard; 2. Bales & Son, on Lily May; 3. Bales & Son, on Lily Gay.
Senior heifer calf. 3 entries—1. Bales & Son, on Lady Dorothea; 2. Straub Bros., on Merry Maid; 3. Bales & Son, on Annie David 2d.
Junior heifer calf. 1 entry—Straub Bros., on Sweet Maid.

(Continued on next page.)



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J.W. Troutman & Sons, Comiskey, Lyon Co., Kas.

SE

Senior dearling heifer, 2 entries—1, Bales & Son, on Vada; 2, Straub Bros., on Meg Standard.

son, on Vada; 2, Straub Bros., on Meg Standard.
Aged cows, 5 entries—1, Bales & Sons, on Lady Graceful; 2, Straub Bros., on Lady Douglas; 3, Straub Bros., on Mollie Standard.
Junior yearling bull, 2 entries—1, Bales & Son, on Douglas of Meadow Lawn; 2, Straub Bros., on Noble Standwill.
Junior bull calf, 1 entry—Bales & Son, on Graceful Lad.
Aged Cow, 4 entries—1, Straub Bros, on Lady of Meadow Lawn; 2, Bales, on Hawkeyo Lady; 3, Bales, on Dorothea; 4, Straub Bros., on Valentine of Wavertree.
Exhibitor's aged herd, 3 entries—1, Straub Bros., on Capt, 4th of Toobrach; 2, Bales & Son, on Wiles McDougal; 3, Straub Bros., on Compact.

Son, on Wiles McDougar, o, School Compact.
Breeders' young herd, 3 entries—1, Bales & Son; 2, Straub Bros., on Utility.
Get of sire, 3 entries—1, Bales & Son, on Wiles McDougal; 2, Straub Bros., on Scottish Standard of Durham; 3, Straub Bros., on Hill.

Hill.
Produce of cow, 4 entries—1, Straub; 2,
Bales; 3, Bales.
Senior heifer calf, 3 entries—1, Harrison &
Harrison, on Alfaifa Blackbird; 2, McClurg,
on Metz Matilda; 3, Miller, on Metz Matilda
9th.

Senior champion bull, 2 entries—Straub Bros., on Captain 4th of Tarbrook, Junior champion bull, 2 entries—Bales & Son, on Graceful Lad.

on Graceful Lad. Grand champion bull. 2 entries—Straub Bros., on Captain 4th of Tarbrook, Senior champion cow. 2 entries—Straub Bros.,

Junfor champion cow, 4 entries—Bales & Son, on Vada.
Grand champion cow, 2 entries—Straub Bros., on Sadie.

RED POLLS.

Young herd—1, Graff; 2, Davis; 3, Schwad & Son.
Get of sire—1, Graff, on One Price; 2, Davis, on Cremo; 3, Schwad & Son.
Produce of cow—1, Schwad, on Eva Crowder; 2, Graff, on Irene; 3, Graff, on Daisy 2d.
Aged herd, 3 entries—1, Graff, on Morning Star; 2, Davis & Son, on Cremo; 3, Schwad, on Flastaff 8th.
Calf herd, 1 entry—Davis & Sons, on Napoleon.

Calf herd, 1 entry—Davis & Sons, on Napoleon.
Junior yearling heifer, 5 entries—1, Graff, on Lena; 2, Graff, on Florence; 3, Schwab & Sons, on Meadow Bird; 4, Graff, on Delia D; 5, Daws & Sons, on Dew Belle.
Senior heifer calf, 4 entries—1, Schwab & Sons, on Eva Crowder 6th; 2, Graff, on Excellence; 3, Davis & Sons, on Gladys; 4, Davis & Sons, on Princess Lady.
Junior heifer calf, 4 entries—1, Davis & Sons, on Nora; 2, Schwab & Sons, on Matilda Chambers; 3, Davis & Sons, on Dorothy; 4, Graff, on Imagene.
Senior champion bull. 2 entries—Davis & Sons, on Cremo.
Junior champion bull—Davis & Sons, on Cremo.
Grand champion bull—Davis & Sons, on Cremo.
Senior champion bull—Davis & Sons, on Cremo.

mo. Senior champion cow, 2 entries—Graff, on

Junior champion cow, 3 entries—Graff, on Grand champion cow, 2 entries-Graff, on

Ruberta, Senior yearling heifer—1, Schwab & Son; 2, Davis & Son; 3, Davis & Son. GUERNSEY.

JERSEYS.

Judge—J. G. Van Pelt, Iowa Exp. Station Hunter & Smith, Beatrice and Lincoln, Neb. 11 H. C. Young, Lincoln, Neb. 11 Honeywell & Reedy, Lincoln, Neb. 11

Aged bulls, 3 entries—1, Hunter & Smith, on Emmanon; 2, H. C. Young, on Guenan's Gay Lad; 3, Honeywell & Reedy, on Prince Fontaine.

Two-year-old bull, 3 entries—1, Honneywell & Reedy, on Golden Ferris Grandson; 2, H. C. Young, on Gertle's Son Gamont; 3, Honeywell & Reedy, on Nebraska Forfarshire.

Bull calves, 6 entries—1, Hunter & Smith, on Victoria Lad; 2, H. C. Young, on Geresos King Rex; 3, Honeywell & Reedy, on May Koffer.

Two-year-old helfer, 5 entries—1, Hunter & Smith, on Victoria's Fair Lady; 2, H. C. Young, on Gay Lad's Girl; 3, Honeywell & Reedy, on Mariona; 4, Honeywell & Reedy, on Prince Gem; 5, Hunter & Smith, on Victoria's Golden Fern.

Yearling helfer, 6 entries—1, H. C. Young, on Gale's Queeny: 2 Hunter & Smith, on Fine

Prince Gem; 5, Hunter & Smith, on Victoria's Golden Fern.

Yearling heifer, 6 entries—1, H. C. Young, on Gale's Queeny; 2, Hunter & Smith, on Emmanon's Tootsy; 3, Honeywell & Reedy, on Ida Golden; 4, Young, on Gay Lad's Etta; 5, Honeywell & Reedy, on Decanter's Spot; 6, Hunter & Smith, on Roy's Gem.

Get of sire, 3 entries—1, Young; 2, Hunter & Smith; 3, Honeywell & Reedy.

Produce of cow—1, Young; 2, Hunter & Smith; 3, Honeywell & Reedy.

Breeders' young herd, 2 entries—1, Hunter & Smith; 2, Young; 3, Honeywell & Reedy.

Aged cows, 4 entries—1, Hunter & Smith, on Dalsy Maid; 2, Hunter & Smith, on Pedros Lovely; 3, Hunter & Smith, on Edies Cafe; 4, Hunter & Smith, on Lillie Jubliee Pogus.

Senior heifer calf, 6 entries—1, Honeywell & Reedy; 2, Young; 3, Hunter & Smith, 4, Young; 5, Hunter & Smith.

Junior heifer calf, 5 entries—1, Hunter & Smith; 2, Young; 3, Young; 4, Honeywell & Reedy; 5, Young; 3, Young; 4, Honeywell & Reedy; 5, Young.

Senior champion bull—Hunter & Smith, on Emmonon.

Junior champion bull—Hunter & Smith, on

Junior champion bull-Hunter & Smith, on Victoria Lad. Grand champion bull—Hunter & Smith, on Senior champion cow—Hunter & Smith, on Dairy Maid.

Junior champion cow-Young, on Galis Queen champion cow-Hunter & Smith, on Dairy Maid.
Exhibitor's herd, S entries—1, Hunter & Smith; S, Young; S, Honeywell & Reedy.

HOLSTEINS.

 Judge-H. G. Van Pelt, Iowa Exp. Station.

 John C. Doubt & Sons, Havelock, Neb.
 11

 C. F. Stone, Peabody, Kans.
 14

 Alex. Sneddon, Eagle, Neb.
 17

 Dr. B. B. Davis, Omaha, Neb.
 1

Aged buil, 4 entries—1, Stone, on Ethyl Aicxander 2, Sir Netherlands; 2, Doubt & Sons, on Regola's Missouri Chief; 3, Sneddon,
Two-year-old, heifer, 6 entries—1, Stone, on Josephine Gerben Alex; 2, Stone, on Josephine Gerben de Kol; 3, Doubt, on Gerben Maid Mechthilde; 4, Sneddon, on Hannah Leda; 5, Sneddon, on Iza Leda.
Yearling heifer, 7 entries—1, Stone, on Lady Truth Gerben; 2, Stone, on Josephine Gerben; 3, Sneddon, on Madeline Lincoln; 4, Sneddon, on Margurite Leda; 5, Doubt & Son, on Nellie Gerben; 6, Doubt & Son, on Minature Gerben. Senior calves, 4 entries—1, Stone, on Beechwood's Model; 2, Sneddon, on Violet Parthena Leda; 3, Doubt & Son, on Dora Gerben Hengervelt; 4, Sneddon, on Fannie Princess.
Aged cow, 9 entries—1, Stone, on Mary Ke Gerben 4th; 2, Sneddon, on Annie V; 3, Stone, on Moberry Beechwood's Hone, on Mary Ke Gerben 4th; 2, Sneddon, on Fannie B 2d.
Two-year-old buil, 1 entry—C. F. Stone, on Karen Netherland de Kol.
Yearling buil, 1 entry—C. F. Stone, on Sir Pontiac.
Bull calves, 7 entries—1, B. B. Dayis, on

Yearing buil, 1 chtry—C. F. Stone, on S. Pontiac.
Bull calves, 7 entries—1, B. B. Davis, on Kalmuck Skylark Johanna; 2, C. F. Stone, on Sammy; 3, C. F. Stone, on Joanna Greenwood.
Produce of cow-1, Stone; 2, Sneddon; 3,
Doubt.

Doubt.
Get of sire, 2 entries—1, Stone; Sneddon.
Breeders' young herd, 3 entries—1, Stone; 2,
Doubt & Son; 3, Sneddon.
Junior heifer caif, 5 entries—1, Stone; 2,
Sneddon; 3, Sneddon; 4, Doubt & Son; 5, Sneddon

don.
Senior champion bull—Stone, on Ethel Alexander Sir Netherland.
Junior champion bull—Stone, on Sir Pontiac Marie Hengerweld.
Grand champion bull—Stone, on Ethel Alexander Sir Netherland.
Senior champion cow—Stone, on Maryke Gerben 4th. Senior c Gerben 4th.

Junior champion cow-Stone, on Lady Truth Grand champion cow—Stone, on Maryke Ger-

Exhibitor's herd, 4 entries—1, Stone; 2, Stone; 3, Doubt & Son; 4, Sneddon.

Swine Department.

POLAND-CHINAS.
Judge—N. H. Gentry. Hill Bros., Trumbull, Neb
Hill Bros., Trumbull, Neb
J. Plug & Son. Exeter Neb
J. H. Hamilton & Son. Guide Rock Neb 1
J. M. Trowbridge, Bethany, Neb
B. C. Lonegan, Florence, Neb. 11
F. R. Barrett, Adams, Neb
W. J. Armstrong, Elgin, Neb
M. O. Froisted, Bradish, Neb
W. H. Deigan, Raymond, Neb.
John M. Frazeur & Son, Ft. Crook, Neb 1 H. B. Francisco, Hastings, Neb
H. B. Francisco, Hastings, Neb
Jos. Schmidt & Son, Wymore, Neb 16
J. B. Simpkins & Son. DeWitt. Neb
J. C. Meese, Ord, Neb
Covett Bros Dhilling Nob
Homer L. McKelvie, Fairfield, Neb
S. McKelvie & Son, Fairfield, Neb 11
H. C. McKelvie, Clay Center, Neb
Homer L. McKelvie, Fairfield, Neb. S. McKelvie & Son, Fairfield, Neb. H. C. McKelvie, Clay Center, Neb. J. A. McFarlane, Fairfield, Neb.
John Schmall, Sutton, Neb
John Schmall, Sutton, Neb E. E. Matticks & Son, Spring Ranch, Neb. 12
B. E. Ridgley, Pickerell, Neb
Jas. F. Menehan, Summerfield, Kans
Jas. F. Menehan, Summerfield, Kans. O. G. Smith & Son and E. H. Andrews, Kearney, Neb. W. A. Lingford, Banneborg, Neb.
Kearney, Neb. W. A. Lingford, Banneborg, Neb. W. E. Willey, Steele City, Neb. Dawson & Son, Endicott, Neb. L. P. Fuller, MorrowVille, Kans. R. B. Baird, Central City, Neb.
W. A. Lingford, Banneborg, Neb
W. E. Willey, Steele City, Neb
Dawson & Son, Endicott, Neb 24
L. P. Fuller, Morrowville, Kans
R. B. Baird, Central City, Neb
Colta Dess, Nelson, Neb
Lee Gress, Nelson, Neb
R. D. Spelts, Benthany, Neb 20
R. D. Spelts, Benthany, Neb. 22 F. K. Riggs, Archer, Neb. 11 W. B. Albertson, Bethany, Neb. 12 H. C. Luckey, Bethany, Neb. 24
W. B. Albertson, Bethany, Neb 12
H. C. Luckey, Bethany, Neb 24
John Ketterer, Bethany, Neb. 30 Paul Weber & Sons, Ohiowa, Neb
Paul Weber & Sons, Ohiowa, Neb
Thomas F. Walker, Alexandria, Neb
F. C. Dunn, Daiton, Neb
D Bolto Wass Neb
D. Bolte, Waco, Neb
C. A. Lewis, Beatrice, Neb
J. L. Johnson, Lindsay, Neb
J. L. Johnson, Lindsay, Neb
S. D. Vertrees, Beatrice, Neb
o. Microcon, Deatifice, Neb
Total

Aged boars—1, McKelvie & Son; on Max Dude; 2, Dunn, on Expander; 3, Vertrees, on Millers Columbia Chief; 4, Lewis, on Top Chief; 5, Dawson's Sons, on Pan Wonder. Senior yearlings—1, Dawson's Sons, on Collosus; 2, Hamilton & Son, on Big Medium; 3, Cavett Bros., on Longfellow Second; 4, Matticks, on Massive; 5, O. G. Smith & Son and E. H. Andrews, on Nebraska Sunshine.

E. H. Andrews, on Nebraska Sunshine.

Junior yearlings—I, Smith & Andrews, on Bellmettle; 2, McKelvie, on Hadley Gold Dust; 3, Meese Bros., on Union Leader; 4, J. L. Johnson, on Big Prospect; 5, Frazuer & Son, on Frazeur's Hadley.

Senior boar pig—I, Hamilton & Son, on Son of I M Allerton; 2, Dart, on son of I M Allerton; 4, Dart, on son of Black Chief; 3, Hamilton & Son, on Son of I M Allerton; 4, Dart, on son of Black Chief; 5, Meese, on son of Banner Boy.

Junior boar pig—I, Walker & Son, on son of Expectation: 2 Sometre cores.

Meese, on son of Black Chief; 5,
Meese, on son of Banner Boy.

Junior boar pig-1, Walker & Son, on son of
Exception; 2, Schmitz, on son of Dorsey's Perfection 2d; 3, Dart, on son of Black Chief; 4,
Dart, on son of Black Chief; 5, McKelvie &
Son, on son of Max Dude.

Aged sows, 8 entries—1, Schmidt & Son, on
Stylish Gosick; 2, Hamilton & Son, on Miss
Shattuck; 3, Bakewell, on Famo L; 4, H, C.
Dawson's & Sons, on Queenover 2d; 5, Jackson & Sons, on Rosa.

Junior yearling sows, 11 entries—1, J. C.
Meese, on Lady Mastiff; 2, John McFarlane,
on Mogul 2d; 3, Schmidt, on I Am Courting;
4, Dawson & Sons, on Grand Queen; 5, Luckey,
on Sow by Neb. Perfection.

Senior yearling sow, 5 entries—1, Schmidt &
Son, on Violet; 2, Schmidt & Son, on Maiden
Rose; 3, Dawson & Sons; on Lady Expansion;
4, Walker & Son, on Sow by Exception; 5,
Froisted, on Proud Lady.

Senior sow pig, 13 entries—1, Dawsons &
Sons, on Sow by Grandlook; 2, Dawsons &
Sons, on Sow by Grandlook; 3, Meese, on Sow
by Orphan Boy; 4, Hamilton & Son, on Sow by
I Am Allerton; 5, Hamilton & Son, on Sow by
I Am Allerton.

Junior sow pig, 17 entries—1, Dawsons &
Sons, on Sow by Grollosus; 2, Dunn. on Sex

Junior sow pig. 17 entries—1, Dawsons & Sons, on Sow by Collosus; 2, Dunn, on Sow by Expander; 3, Dart, on Sow by Black Chief; 4, Dart, on Sow by Black Chief; 4, Dart, on Sow by Black Chief; 5, D. C. Lonergan, on Sow by Guy Price 2d.

Aged herd, 4 showings—1, Dawson & Sons; 2, Smith & Son; 3, Homer L. McKelvie; 4, Messe, Breeders' young herd, 4 showings—1, Dawson & Son; 3, Hamilton & Son; 3, McFariane; 4, Cavett Bree.

Get of sire, 6 entries—1, Schmidt & Son, on Dorseys Perfection 2d; 2, Dawson & Son, on Grand Look; 3, Hamilton & Son, on I Am Allerton; 4, Cavett Bros., on Longfellow 2d. Produce of sow, 4 entries—1, Dawson & Campbell, on Pan Over Queen; 2, Dart, on Zorz Vic; 3, Baird, on Purple Girl; 4, Cavitt Bros., on Maude 2d. Champion boar, 4 entries—McKelvie & Son, on Max Dude.

Champion boar bred by exhibitor—Cavett Bros., on Longfellow 2d.

Champion sew—Schmidt & Son, on Violet. Champion sow bred by exhibitor—Schmidt & Son, on Violet.

BERKSHIRES.

 Judge—W. H. Gentry, Sedalia, Mo.

 Beeson & Kimbrough, Geneva, Neb.
 3

 J. P. Scherzinger, Nora, Neb.
 11

 Muirhead & Gorton, Pawnee City, Neb.
 5

 Honeywell & Reedy, Lincoln, Neb.
 8

 J. M. McPherson & Son, Stuart, Iowa.
 12

 C. W. Miller, Menlo, Iowa.
 4

 F. A. Scherzinger, Nelson, Neb.
 3

 W. R. Holt, Falls City, Neb.
 27

Aged boars, 4 entries—1, Holt, on Longfellow's Premier; 2, F. A. Scherzinger, on Homestead Model; 3, Honeywell & Reedy, on Summit; 4, McPherson & Son, on General Logan, Senior yearling boar, 2 entries—1, Honeywell & Reedy, on Duke of Emerald; 2, Holt, on Orphan Boy,
Junior yearling boar, 5 entries—1, J. P. Scherzinger, on Nebraska Longfellow; 2, Mulrhead & Gordon, on Nebraska Royal; 3, J. M. McPherson & Son, on Prince Lee; 4, W. R. Holt, on Master Mack; 5, Honeywell & Reedy, Senior boar pig, 7 entries—1, W. R. Holt, on Royal Duke; 3, McPherson; 4, W. R. Holt, 5, W. R. Holt, 5, Junior boar pig, 10 entries—1, Miller & Diet-Junior boar pig, 10 en

W. R. Holt.
Junior boar pig, 10 entries—1, Miller & Dietrich; 2, J. P. Scherzinger; 3, J. P. Scherzinger;
4, Holt; 5, Scherzinger.
Aged sow, 4 entries—1, W. R. Holt, on Tilde's Model; 2, F. R. Scherzinger, on Homestead Empress 2d; 3, McPherson, on Mac's Lady Logan; 4, Honeywell & Reedy, on Miss Sallie.

stead Empress 2d; 3, McPherson, on Mac's Lady Logan; 4, Honeywell & Reedy, on Miss Saille.

Sonlor yearling sow, 3 entries—1, W. R. Holt, on Golden Queen; 2, W. R. Holt, on Frazer; 3, Scherzinger, on Sadie Logan, Junior sow, 5 entries—1, McPherson & Son, on Logan's Pride; 2, J. P. Scherzinger, on Premier's Lass U. P. Scherzinger, on Premier's Lass T; 5, J. P. Scherzinger, on Premier's Lass T; 5, J. P. Scherzinger, on Premier's Lass U. Sonlor sow pig, 9 entries—1, McPherson on Mac's Myrtle; 2, Mrs. W. R. Holt, on Sow by Big Bob; 3, McPherson, on Mac's Lady Logan 2d; 4, Mrs. W. R. Holt, on Sow by Big Bob; 5, W. R. Holt, on Sow by Big Bob. Junior sow pigs, 8 entries—1, 2, 4, 5, Miller & Dietrick; 3, W. R. Holt, Aged herd, 3 entries—1, Holt, herd headed by Longfellow's Premier; 2, McPherson & Son, herd headed by Prince Lee; 3, J. P. Scherzinger, herd headed by Nebraska Longfellow.

Breeder's young herd, 4 entries—1, Mrs. W. R. Holt; 2, McPherson & Son; 3, W. R. Holt; 4, J. P. Scherzinger,

Get of sire, 5 entries—1, McPherson & Son, on get of Gen. Logan; 2, Mrs. W. R. Holt, on get of Big Bob; 3, Miller & Dietrich, on get of Cock Robin 2d; 4, W. R. Holt, on get of Longfellow's Premier.

Produce of sow, 3 entries—1, Miller & Dietrich, on Menlow Prince Lee; 2, J. P. Scherzinger, on Silver Lady 2d; 3, W. R. Holt, on Laura's Imitator.

Champlon boar—J. P. Scherzinger, on Nebraska Longfellow Werther Lee; 2, J. P. Scherzinger, on Silver Lady 2d; 3, W. R. Holt, Champlon boar—J. P. Scherzinger, on Nebraska Longfellow Werther Lee; 2, J. P. Scherzinger, on Silver Lady 2d; 3, W. R. Holt, Champlon sow W. R. Holt, on-Tilde's Model. Champlon sow W. R. Holt, on-Tilde's Model. Champlon sow bred by exhibitor—Same.

Champion sow bred by exhib	itor—Same.
DUROC-JERSEYS.	
Judge-Prof A. E. Burnett, Ne	b. Exp. Stta-
tion.	17
W. Sidders, Bennett, Neb	
S. L. Holley, Bennett, Neb	6
W. M. Retzian, Bennett, Neb	
A. L. Pangburn, Creighton, Ne	b 6
James Collen, Creighton, Neb	8
Miner & Cross Guide Rock	Neh 10
Jesse S. Golder, Scribner, Neb	
Jacob Wernsman, Cedar Bluffs, 1	Neb 14
Briggs Bros. Seward Neb.	12
E. K. Young & Son, Havelock, I	Neb 14
H. S. Allen, Russell, Iowa	8
H Smith & Son Tobias Neb	eb 12
A. J. Russell, Crab Orchard, Ne	b 8
O. G. Smith & Son, Kearney, Ne	b 5
E. V. Smead. Kearney. Neb	
F. Backus, Oakland, Neb	1
Paul Grupe, Tecumseh, Neb	3
Arch Brown & Sons, Waterloo, 1	Neb 18
E. Z. Russell, Blair, Neb	8
M. S. Moats, Randolph, Neb	8
Carl Hansen, Herman, Neb	
Whit Cameron, Herman, Neb	7
Geo. A. Nordyke. Allen. Neb	
F. Steinback, Notan, Neb	10
Geo. I. Clark, St. Edwards, Neb	
Wm. Warnock, Alexandria, Neb	
H. L. Roberts & Son, Palton, Ic	wa 10
Wm. Bornemeier Elmwood No	b 7
S. J. Tillman, Ragan, Neb	23
W. J. East, Clay Center, Neb	8
Geo. Davis & Son, Milford, Neb	5
Hoses Wilson, Blair, Neb	9
H. W. Louden & Sons Clay Ce	nter Neb 18
T. J. Current, Hildreth, Neb	
Geo. Briggs & Son, Clay Center,	Neb 23
H. G. Warren, Inland, Neb	5
Chas Van Patten, Sutton, Neb	1
C. Van Patten, Sutton, Neb	b
W. M. Putman, Tecumseh, Neb	10
R. F. Miller, Tecumseh, Neb	15
Gifford & Vrtiska, Pawnee City,	Neb 8
Chas. C. Keyt, Auburn, Neb	6
Elmer J. Lamb. Tecumseh. Ne	b 3
A. R. Barnes, Petersburg, Neb	7
J. S. Beem, Bethany, Neb	25
J. W. Abraham, Valley, Neb	
B. R. Roberts & Harter, Hebror	i, Neb 15
C. W. Buck, DeWitt, Neb	8
W. F. Waldo & Bros., DeWitt	and Ottum-
Wa, S. D	24
F. Aldritt, Friend, Neb	6
John M. Morrison, College View	, Neb 12
W. A. Kirkpatrick, Lincoln Nah	6
DUROC-JERSEYS, Judge—Prof A. E. Burnett, Netion. O. J. May, Bennett, Neb	Yeb 5
and the same of th	-

Aged boars, 15 entries—1, Sexsmith & Strong, n, Choice Goods; 2, Gilbert Van Patten, on

HORSE OWNERS! USE CAUSTIC BALSAM.





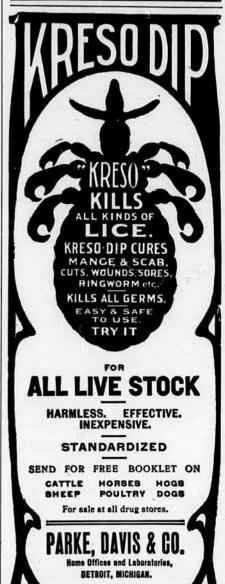
REWTOR'S Heave, Cough, Dis-temper and Indigestion Cure-A veterinary Remedy for wind, throat and atomach troubles. Strong recommends. \$1,00 per can, of dealers, or exp. prepaid. The Newton Remedy Co-Toledo, Uhic.



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THE KANSAS FARMER

Davis' Chief; 3, Briggs & Son, on Ohio Chief I Am; 4, A. Wilson, on Lincoln Wonder; 5, Louden & Son, on Jumbo, Jr.

Senior yearling boar, 9 entries—1, G. Van Senior yearling boar, 9 entries—1, G. Van Patten, on Advancer 3d; 2, M. V. Putnam, on Put's Model; 3, Frank Bacchus, on Hig-gin's Model, Jr.; 4, H. S. Allen, on Crimson Hank; 5, W. H. Goble & Son, on Pomele.

Hank; 5, W. H. Goble & Son, on Pomele.

Junior yearling boar, 36 entries—1, Steele & Smith, on Crimson Wonder; 2, E. Z. Russell, on Jumbo Critic, Jr.; 3, Unitt, on Unitt's Crictic: 4, Briggs & McCarthy, on Mac's Improver; 5, Putnam & Minler, on Crimson Kid.

Senior boar pig, 62 entries—1, G. Van Patten, on pig by Echo Top; 2, G. Van Patten, on pig by Echo Top; 3, Stewart & Son, on pig by Chief Sensation; 4, E. J. Brown, on Gold Dust Knight; 5, S. Stewart & Son, on pig by Chief Sensation.

Junior boar pig, 71 entries—1, H. S. Allen

Junior boar pig, 71 entries—1, H. S. Allen Sells, on pig by Crimson Wonder Again; W. F. Waldo, on pig by Top Notcher; 3, teele & Smith, on pig by Farmer Burns; 4, 160. Caldwell, on pig by Billi K, Jr.; 5, V. F. Waldo, on pig by I Challenge You.

W. F. Waldo, on pig by I Challenge You.

Aged sows, 18 entries—1, Briggs & Son, on
Morton Rose; 2, H. S. Allen, on Crimson Lulu: 3, G. Van Patten, on Miss Morton 1st; 4,
Putnam & Son, on Eva; 5, Easton Bros., on
Notcher's Lena.

Senior yearling sow, 20 entries—1, Stewart,
on Lady Lightfoot; 2, Louden & Son, on
Cloverdale Beauty; 3, Easton Bros., on
offramer Queen; 4, S. Stewart & Son, on Cedar
Queen 2d; 5, Briggs & Son, on Sow by Belle
& Model.

Cloverdale Beauty; 3, Easton Bros., on Aframer Queen; 4, S. Stewart & Son, on Cedar Queen; 2d; 5, Briggs & Son, on Sow by Belle K Model.

Aged herd—1, Exsmith & Strong, herd headed by H. A.'s Choice Goods; 2, Briggs & Son, herd headed by Ohlo Chief I Am; 3, Stewart & Sons, herd headed by Wrinkles Wonder; 4, Easton Bros., herd headed by Jowa Notcher. Breeders' young herd—1. Stewart & Sons; 2, H. S. Allen; 3, W. F. Waldo; 4, J. S. Reem. Get of sire—1, G. Van Patten, on Echo Top; 2, H. S. Allen, on Crimson Wonder Again; 3, Sexsmith & Strong, on Valley Chief; 4, Stewart & Son, on Chief Sensation.

Produce of sow—1, Wernsman, out of Lady Chitwood 2d; 2, Roberts & Harter, out of Eva; 3, Steele & Smith, out of Garnett's Pride; 4, Stewart & Sons, out of Kruger Chief.

Senior sow pig. 24 entries—1, Stewart & Son, on Elberta; 2, H. S. Allen on Elberta Crimson Wonder, 3, Moats & Son, on Elberta; Chief; 5, Briggs & Son, on Elberta Chimes Advance; 4. W. F. Waldo, on Elberta Chimes Advance; 4. W. F. Waldo, on Elberta Chief; 5, Briggs & Son, on Sow by Morrison's Belle Top.

Junior sow pig. 54 entries—1, Wernsman, pig by Col. W: 2, Steele & Smith, pig by Farmer Burns; 3, Wernsman, pig by Col. W: 4, Keyt, pig by La Follette; 5, Current, pig by Watt's Model.

Champlon boar, 6 entries—Steele & Smith, on Crimson Wonder 3d.

Champlon sow—Briggs & Sons, on Morton Rose,
Champlon sow bred by exhibitor—Briggs & Sons, on Morton Rose,

Champion sow bred by exhibitor—Briggs & Sons, Morton Rose.

CHESTER WHITES.

w vr agules Menle Town
Judge-T. W. Miller, Menlo, Iowa.
Jacob Goehring, Seward, Neb
Waltmeyer Raymore, Neb
T C Doore Prescott lows
T Wharton Ilni Place, Neb
John Cramer, Beatrice, Neb
Wm. Gilmore & Son, Fairbury, Neb 11
Wm. Gilmore & Son, Fairbury, 1965
H. D. Bode, Exeter, Neb
Total
TOTAL

Aged boar, 8 entries—1, L. C. Reese, on O. .. Mikado; 2, Gilmore & Son, on Blucher; Gilmore & Son, on Jim; 4, R. E. Blodgett, n Flossy's Duke; 5, John Cramer, on Choice code.

on Flossy's Duke; 5, John Cramer, on Choice Goods.

Senior yearling boar, 1 entry—W. W. Waltmire, on Keep On.

Junior yearling boar—1, Reese, on Perfection;

Reese, on Wonder; 3, Waltmire, on Ed; 4,

H. L. Bode, on by Nebraska Chief; 5, by
Nebraska Chief.

Senior boar pig—1, L. C. Reese; 2, L. C.
Reese; 3, Gilmore & Son; 4, L. C. Reese; 5,
Vanderslice Bros.

Junior boar pig, 14 entries—1, Gilmore & Son,
on Taft; 2, L. C. Reese, on By O. K; 3, Gilmore & Son; 4, Burton & Son; 5, D. Bode.

Aged Sow, 8 entries—1, L. C. Reese, on Bitter Girl; 2, L. C. Reese, on Ruby Mc, 2d; 3,

W. W. Waltmire, on O. K. Amy; 4, Vanderslice Bros., on Bess; 5, H. L. Bode, on Lady
E.

Senior yearling sow, 7 entries—1, L. C. Reese

Senior yearling sow, 7 entries—1, L. C. Reese, on Prescott Belle; 2, L. C. Reese, on Prescott Belle; 2, L. C. Reese, on Ruth; 3, W. W. Waltmire, on Bessie 2d; 4, Waltmire, on Bessie 3d.

Junior yearling sow, 7 entries—1, Waltmire, on Bright Eyes; 2, Reese, on By O K Mikado; 3, Burton & Son, on By Teddy's R. Picture; 4, Vanderslice Bros., on Lily; 5, Reese, on By O K Mikado.

Senior sow pig, 9 entries—1, Reese, on Sir O K Mikado; 2, Reese, on Sir O K Mikado; 3, Reese, on Sir O K Mikado; 3, Reese, on Sir O K Mikado; 3, Reese, on Sir O K Mikado; 4, Waltmire, on By Champion; 5, Bode, on By Nebraska Chief. Junior sow pig, 15 entries—1, Cramer; 2, Rode; 3, Gilmore & Son; 4, Reese; 5, Burton & Son.

Aged herd, 5 entries—1, Reese, herd headed by O K Mikado; 2, Reese, herd headed by Perfection; 3, Waltmire, herd headed by Keep

On.

Breeders' young herd, 4 entries—1, Reese; 2.

Reese; 3, Waltmire; 4, Vanderslice Bros.

Get of sire, 6 entries—1, Reese; 2, Reese; 3,

Reese; 4, Waltmire;

Produce of sow, 5 entries—1, Gilmore & Son;

Reese; Bode; 4, Waltmire.

Champion boar—Reese, on O K Mikado.

Champion boar bred by exhibitor—Reese, on Perfection.

Champion sow—Reese, on Winnie Pearl. Champion sow bred by exhibitor—Reese, on Winnie Pearl.

THE SHEEP EXHIBIT.

About 125 head of sheep, representing six different breeds, were shown. The exhibitors were: Geo. Allen, Lexington, Neb., with 15 Shropshires and 10 Southdowns; Wm. H. Allen, Lexington, Neb., 6 Shropshires and 6 Southdowns; M. and L. E. Bauer, Jameson, Mo., 20 Shropshires; Wm. L. Gove, Cheney, Neb., 12 Delaine Merinos; Damrow Bros., Lincoln, 12 Oxfords; W. W. Waltmire, Peculiar, Mo., 11 Oxfords; Floyd McCann, Kennard, Neb., 4 Shropshires; Robt. Taylor, Abbott, Neb., 15 Ramboulettes, 13 Hampshires, and 10 Leicestershires.

tershires.
The following awards were made on Oxfords and Shropshires:

OXFORDS.

Judge-David Broadwood, Abbott, Neb. Yearling Ram-1, Waltmire; 2, Damrow

Ram lamb—1, Waltmire; 2, Damrow Bros. Aged ewes—1, Damrow Bros.; 2, Waltmire. Yearling ewe—1, Damrow Bros.; 2, Walt-

mire.

Ewe lamb—1, Damrow Bros.; 2, Waltmire.

Pen of lambs bred by exhibitor—1, Damrow Bros.; 2, Waltmire.

Flock (ram and 4 ewes)—1, Waltmire; 5, Damrow Bros.

Champion ram—Damrow Bros.

Champion ewe—Damrow Bros.

SHROPSHIRES.

Judge—David Broadwood, Abbott, Neb.
Aged rams—1, Allen; 2, Wm. Allen.
Yearling ram—1, Bauer; 2, Keo. Allen.
Ram: lamb—1, Bauer; 2, Geo. Allen.
Aged ewe—1, Bauer; 2, Geo. Allen.
Yearling ewe—1, Geo. Allen.
Yearling ewe—1, Geo. Allen.
Ewe lamb—1, Bauer; 2, Geo. Allen.
Pen (4 lambs)—1, Bauer; 2, Geo. Allen.
Flock (ram and ewes)—1, Bauer; 2, Geo. *Allen.

champion ram—Bauer. Champion ewe—Geo. Allen.

SOUTHDOWNS.

In this class, Geo. Allen won six firsts, two seconds, and two championships; Wm. Allen winning two firsts and four second prizes. Field Notes

LIVE STOCK REPRESENTATIVES.

While the past year has been a poor one for association work, the American Aberdeen-Angus Association is going right along under the direction of Chas. Gray, secretary. So far, this year, the association has enrolled 180 members, which is about 40 more than has been enrolled during any entire year in the past. olume 17 of the Aberdeen-Angus herd book, an issue of 1,000 copies, is now ready for distrubution. Volume 17 contains entries from 100,501 to 112,500.

Now is the time to get rid of the gophers in your alfalfa and other fields. Read what the members of the Shawnee Alfalfa Club had to say about Gopher Death in the reports of their meetings. "It is the handest, surest, and cheapest gopher destroyer that has yet been discovered," is the way one large alfalfa-grower states the case. It is manufactured by the Fort Dodge Chemical Co., Fort Dodge, Iowa of whom it may be obtained. Please mention THE KANSAS FARMER.

Jones's National School of Auctioneering and Oratory has just closed the
most successful summer term it has
ever enjoyed. The classes were composed of students from nearly all of
the middle States and from as far east
as New Hampshire. That Colonel Jones
is doing excellent work in his school is
shown by the liberal patronage he
receives and the quality of the
work he does. A considerable number of young men from Kansas have attended this school and all
praise it highly. Among the graduates
of this school who have attained to
conspicuous success is Col. Jas. T. MoCulloch of Clay Center, who is one of
the ablest and most capable live-stock
auctioneers in the State. If you want
first class service in conducting your
sale secure Colonel McCulloch and you
will not only get it but you will also
receive a very excellent idea of the
quality to be found among the graduates of Jone's National School of Auctioneering and Oratory, 1215 Washington Boulevard, Chicago, Ill.

Last Call for the Guthrie Ranch Berk-shire Dispersal Sale.

This is the last call for the Guthrie Ranch Berkshire dispersal sale, which will be held at the ranch a few miles from Strong City, Kans., Friday. September 18, as advertised in THE KANSAS FARMER.

In many respects this is one of the greatest consignments of Berkshires ever offered in the West, for it will comprise the entire foundation herd, including many valuable animals that the Guthries have absolutely refused to price before.

Guthries have absolutely refused to price before.
Manager T. F. Guthrie has been years accumulating this splendid lot of Berkshires which will now be sold to the highest bidder without reserve to settle the estate of the late W. W. Guthries without the state of the late w. W.

highest bidder without reserve to settle the estate of the late W. W. Guthrie.

Guthrie Ranch Berkshires represents without doubt more of the much prized blood of Black Robin Hood than any other herd in the country, and this dispersal sale will afford breeders an opportunity to secure foundation stock with valuable blood lines and splendid individuality such as probably will not occur again for many years.

This offering will include the herd boars, brood sows, sows with pigs by side, brood sows, sows with pigs by side, brood sows, open glits, and spring pigs. These will be well fitted and in the pink of condition and in the best possible condition to do buyers good.

Mr. Guthrie extends a cordial invitation to his brother breeders and to all who may be interested in the breed, to be his quests on sale day. He requests that prospective buyers come the evening before, and teams will be provided to carry them to the ranch the morning of the sale, affording all an opportunity to thoroughly inspect the offering.

Look up his advertisement in The Kansas Farmer and write Mr. Guthrie for a catalogue and arrange to be his guest Friday, Septembr 12.

Becker's Poland-Chinas.

Becker's Poland-Chinas.

On another page of this issue J. H. Becker, the well known breeder of Poland-Chinas of Newton, Kans., is starting an advertisement in which he is offering for sale at attractive prices some choice fall glits, a few bred sows and some extra good, well grown, spring boars and glits.

Mr. Becker is one of the well known and up-to-date breeders in that part of the State and has established a reputation not only for the quality of his stock, but for his square dealing and reasonable prices. He is a splendid judge of hogs and in building his herd has sought to combine the requisites of size, finish, and easy feeding quali-

ties, and on inspecting his herd the writer found that in these respects his hogs are much above the average.

The chief herd boars in service are Trouble Maker 2d, by Trouble Maker a full brother to Meddler, the World's Fair champion, and Dandy Rex, by Prince Proud he by Proud Perfection.

Trouble Maker 2d has the size, finish, and fleshing qualities characteristic of this noted family which he transmits to his get in a marked degree. A large part of the spring pigs are by him, and they are showing up strong, with extra good heads and ears, strong backs, well sprung ribs, good bone and feet, as well as for general thrift and vigor.

Dandy Rex has made a record not only as a sire but as a show hog. He won first in class at the Kansas and Colorado State Fairs in 1905 and 1906 and has produced pigs, if properly fitted, that are good enough to go out and win in good company.

Mr. Becker might be induced to part with Dandy Rex because he is now too closely related to the herd. He is just in his breeding prime and is fit to head, or do service in any herd.

The herd sows are nearly all of the large type and are strong in scale, bone and finish and extra prolific qualities, and are by such sires as Emperor Chief, C. M. Corwin, Acme Perfection, and Big Duke.

Mr. Becker does not keep a large herd, but it is very select, and all of his breeding "stock is well fed, well grown and nothing but the tops are sold for breeding purposes.

In ordering from Mr. Becker you will get the best individuals and blood lines at reasonable prices, and you can rely on his sending you just what you order, so send in your order early and get your pick of the best. In writing please mention The Kansas Farmer.

C. C. Roup's Tamworths.

C. C. Roup's Tamworths.

One of the attractive features of the hog show at the Iowa State Fair, at Des Moines two weeks ago, was the Tamworth hog exhibit which attracted the attention of the hog-raisers who have been watching the development of this bacon breed. The demand for the bacon hog is steadily and rapidly increasing and will continue to do so for two reasons, one because bacon is the highest price pork product on the market, and second is because the Tamworth will make as many pounds in as short a time on as small amount of feed as any other breed and will sire more pigs than any lard breed. The Tamworth show at this fair was not large but the quality was the best we have ever seen at this place.

One of the exhibitors that made this a great show of Tamworths and won a number of the best prizes was C. C. Roup, Iowa City, Iowa. Mr. Roup's hogs were typical Tamworths of the best bacon type; long, deep, smooth, and well grown for their ages. Mr. Roup said the sales were coming along good and he had a choice lot of pigs for the season's trade. Parties wishing the bacon hog could not do better than write for prices where you will get good stock and just treatment. Below is a list of Mr. Roup's winnings at the last Iowa State Fair:

Second aged boar, second junior yearling boar, first and second boar pig under 1 year, second boar pig under 1 year, second boar pig under 6 months, first and fifth aged sow, first and sow pig under 1 year, first and second sow pig under 1 year, first and second sow pig under 6 months, third aged herd, first and fourth young herd, first on get of boar, second on produce of sow, champion sow any age, and champion sow bred by exhibitor.

C. P. Brown's Poland-Chinas.

Perhaps no part of Kansas is noted for the good hogs it produces better than the East Central part. One of the best Poland-China herds in this part of the State is owned by C. P. Brown, Whiting, Jackson, County, Kan-sas.

che best Foland-China herds in this part of the State is owned by C. P. Brown, Whiting, Jackson, County, Kansas.

Mr. Brown has been breeding Poland-Chinas for a number of years and knows how to feed and grow pigs to make the best breeders.

The brood sows in this herd are typical Poland-China with lots of quality and finish and bred in the purple. One of the good sows is Perfect Beauty 2d, sired by that great show and breeding boar Empire Chief. This hog won champion prizes at both National and Kansas State Fairs. The dam of Perfect Beauty 2d was Perfect Beauty, running direct to the old Darkness sow of such Poland-China fame. This sow has a nice litter of nine pigs sired by Col. Mills, a son of that great hog. Chief Perfection 2d.

Another good brood sow is Royal's Maid, a Black U. S. and Corrector bred sow. This sow has a nice litter sired by Indiand, the champion hog of the East winning champion prize at both Illinois and Ohio State Fair. He is not only a great prize winner but he is a son and grandson of these two great hogs L. and W. Perfection and Chief Perfection 2d. Another good one that has a fall and spring litter is Viola Perfection 2d sired by Black Perfection, dam by Old Perfection. The boars at the head of this herd is On The Line sired by On and On, he by Keep On. both of these were champion show hogs. The dam of On the Line is Chief Fancy Lady sired by Chief Perfection



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Any style of this greatest talking machine in the world will be sent to you on trial, freight prepaid. Also 12 records. Hear it play its music—sing its songs. Then, it you are satisfied, pay us a trifle each month. This concern, with its combined capital of \$7,000,000, is the largest of its kind in the world. We have 450,000 customers. See what we can do on a Graphophone. Write a postal today for Catalog No. 30.

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Do You Want Money?

Farm News wants a reliable person in each neighborhood to act as Local Circulesion Manager and represent an attractive, new proposition. Just now ready for the market. A permanent position with good pay for time given is assured. The work is easy and pleasant and may be the source of a regular yearly income. The boys and girls can do the work while going to school; the country school teacher can add to her salary; the house-wife can make pin-money; energetic men-young or old-can make just as much as they have time for.

We pay liberally for this work in cash. We have a special, new plan.

We have a special, new plan.
Write a postal at once for particulars and
state what territory you can cover. Address

FARM NEWS, Circulation Mgr., Springfield, O.

THE ROYAL HOTEL, Lincoln, Neb

Modern, fire proof, only American Plan Hotel in the city. Centrally located, 15th and O Sin.

Thoroughbred Rambouillet Rams



For sale, 200 head yearling Rams, large, vigorous healthy, fellows, averaging, when weaned, 79 lbs. at 4 months old. Not the pampered, early born, grain fed, worm infested sort, but born and

Grown on Kansas Blue Stem Pas tures and Alfalfa Hay.

The long stapled, heavy shearing, well covered kinds. They are the get of the top pick of 400 head of a flock of 1,500 of the finest and best bred ewes in the United States and for which we paid a large price. Will sell singly or all together at a price lower than the lowest.

For further information and prices, write

Comiskey, Lyon Co., Kans J. W. Treutman & Sons,

Freight

Prepaid

SEI

2d. This hog is assisted by Col. Mills, sired by Chief Perfection 2d dam by Old Black U. S. Every Poland-China breeder knows that this breeding is as good as can be found in the breed. These hogs are not only bred right but they are good individuals and are siring pigs that have size, quality, finish, and Poland-China type and conformation. Parties wishing fall boars or spring pigs should write Mr. Brown for prices. Notice his advertisement elsewhere in THE KANBAS FARMER.

Jones' College View Polands.

Jones' College View Polands.

W. A. Jones and Son, of Ottawa. Kans. proprietors of College View herd of Polands, which in many respects is one of the best in the State, have on hands, and are offering at reasonable prices, some first class grearling boars any of which are fit to do service in good herds. W. A. Jones and Son breed the large type of Poland-Chinas and have established a National reputation through some of the animals bred by them. Mr. Jones is the breeder of the famous Chief Tecumseh 2d and other noted swine, and has always succeeded in producing in his hogs not only plenty of scale, but lots of finish and natural feeding and fleshing qualities. We know of no better place to go to buy a first class herd boar than right here. The kind that Jones and Son have will not only increase the size but will improve the feeding and fleshing qualities of your hogs.

These boars which they are offering are strong, vigorous fellows of just the right age and in the very best condition to do hard service and give the best results. Considering their quality they are being priced reasonable, and will not last long.

Jones and Son also have some extra, well grown, toppy, spring boars and a few choice gilts. If you want some of the best of these it will be well to send in your order soon, for they won't last long. Jones and Son's farm adjoins Ottawa, and if prospective buyers will telephone them they will be called for and returned to the depot.

Leyhe & Purcell's Coming Poland Sale.

Leyhe & Purcell's Coming Poland Sale.

Leyhe & Purcell, of Marshall, Mo., are getting things in readiness for their Poland-China sale this fall, which is to be held on Novmber 19.

These gentlemen were liberal buyers at many of the very best Poland-China sales for the past few years and are prepared to offer a bunch of hogs that are good enough to interest the good breeders of this character of swine.

In their purchases they were careful to get such animals that were qualified in breeding and individual merit to meet the advanced and increasing demand for the best in Poland-Chinas. These gentlemen are not only breeders of hogs but business men who have made a success of life and are absolutely reliable in every particular. Their personal guarantee goes with every animal sold from their farms.

Keep their sal date in mind and arrange to be on hand at that time. We will have more to say for thm as the time advances.

Frank Drybread's Durocs.

Frank Drybread's Durocs.

Frank Drybread, proprietor of Maple Grove herd of Durocs, at Elk City, Kans., writes that he attended the Wilson County Fair and was awarded first prize and second sweepstakes on his splendid herd boar, Crimson Prince 69527. We know that Crimson Prince is entitled to these honors, for he is one of the best boars of his age that we have seen. He is a son of that king of the breed the great Ohio Chief, and is remarkable for his scale and quality, weighing 700 pounds in his senior yearling form.

Mr. Drybread is a member of the Southeast Kansas Sale Circuit, together with Samuel Drybread, J. J Baker, and O. W. Simerley, and will hold a public sale November 12.

His offering will consist largely of extra good well grown spring pigs of early farrow, out of good dams, and by Crimson Prince and other good sires.

Mr. Drybread writes that they are doing nicely and will be in splendid shape on sale day.

A. K. Sells' Sale of Registered Poland-Chinas September 24.

Chinas September 24.

A. K. Sell, the well known breeder of Poland-Chinas and proprietor of Fairview Stock Farm, at Fredonia, Kans. is advertising his fall sale on another page of this issue. This sale will be held at Fairview Stock Farm, three miles from Fredonia, Thursday. September 24, and we invite the careful attention of our readers who may be interested to the fine line of stuff Mr. Sell is advertising. Some of the most popular and up-to-date blood lines are represented in this consignment which will consist of twenty choice, proven sows most of them bred; eight fancy bred fall yearling gilts; ten extra good fall gilts sold open; six fall and winter boars that are good ones, and fifty early spring pigs, the tops of his entrie crop.

Among the proven sows are such choice individuals as Corrector Girl. Size

boars that are good ones, and fifty early spring pigs, the tops of his entire crop.

Among the proven sows are such choice individuals as Corrector Girl. Siss Radium, and Truth, all granddaughters of the great Corrector 2d. Then there is Vinita, Mischief Miss, and Meddler Girl, granddaughter of Meddler the World's Fair champion. Thermel L will be number one in the catalogue. She is a granddaughter of Chief Perfection 2d and is out of a Proud Corrector dam. There are three by Perfect Chief, and there are other good ones by such sires as Sunshine Mischief by Luster Sunshine: Prince Perfection M. 2d. The most of these will be safe in service, to Sells' Spell, an excellent breeding son of the great Spellbinder, his dam is Imps Girl by Impudence.

The eighteen yearling gilts that will be included are a nice, smooth bunch with lots of quality. They are out of good prolific dams and are sired largely by Correct Sunshine 101835, the chief herd boar and a son of Luster Sunshine. Eight of these will be bred to Sell's Spell for fall litters.

In the boar division there are a num-

Don't buy a stove or range until you first see

How Much You Save by getting

I Promise You:

That you save more money, and at the same time get a better stove or range for the money, when you buy a Kalamazoo, than you can get anywhere else in the world. That's

buy a Kalamazoo, than you can get anywhere else in the world. That's my promise, and here's my hand on it! Will you give me a chance to prove to you that I will do what I say?

In the past six years we have sold Kalamazoo stoves and ranges to thousands of readers of this journal—saving them \$5, \$8, \$10, and as high as \$30 and \$35 on a single purchase. But, that doesn't do you any good, unless you let me quote you prices and show you what we can do for you. Isn't it to your interest, then, to get our prices and catalogue? When you buy, you want the best stove or range you can find, and you want to buy it as economically as possible. You want to make every dollar count. Let me show you how. Write for our our catalogue and prices, and then compare the Kalamazoo, in both quality and prices with the best stoves and ranges you can find sold at retail. That's all we ask—just a simple comparison. And it's to your interest to make it.

comparison. And it's to your interest to make it.

How You Save Money

You deal directly with the manufacturers. You buy at actual factory prices. You save all dealers', jobbers' and middlemen's profits.
You buy from one of the largest, most modern, best equipped stove foundries in the world—making nothing but the highest grade stoves and ranges, and you get all the advantages which come from manufacturing in large quantities.
You not only save from 20% to 40% in first cest, but you also save in cost of operation, in repairs and in durability.
You do not only save money, but you get a stove or range of extra quality.
You have no freight to pay. We send you the Kalamazoo freight prepaid.
You get a stove or range of the latest design, with all the latest improvements, which will last as long as any you can find anywhere, and you save one-quarter or one-third in the price.

How You Run No Risk

"A Kalamazoo

You buy on a 360 days' approval test, and I promise now, in black and white, to return to you every cent you pay if you do not find your purchase in every way exactly as represented. You buy from an established company, with more individual customers than any other stove company in existence.

We doubtless can send you names of many satisfied users of the Kalamazoo right in your own country—people who have not only saved money, but have also secured a stove or range of extra quality. We pay the freight—you don't have to take even that risk.

Your banker can easily find out about our reliability, and you know that the editor of this paper would not print our advertisements, year after year, if we were not perfectly trustworthy. If you appreciate the advantage of economy in buying, you will at least let me quote you prices.

Base Burners Coal and Wood Heaters Shop Stoves, etc.

You wouldn't think of buying land or hogs or steers or feed-stuff, without first finding out what the market ice is. Why then buy a stove or range without finding out the manufacturers' prices?

Let me show you the difference between the factory price and the retail price. Use the coupon, or

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You can save enough on one purchase, to pay for a good share of your season's fuel—to pay your taxes—to get a new gown or a new suit. If you save only \$5, or \$10, I'm sure you can find some good use for the money or you keep in your own pocket.

The Kalamazoo line is complete, embracing stoves and ranges for all domestic purposes, including more than 300 styles and sizes of

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All Kalamazoo stoves and ranges are equipped with patent thermometer which makes baking and roasting easy.

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Wm. Thompson, Vice Pres. and Gen. Mgr.

ber fit to do service in good herds. These are all winter and fall yearlings and are a growthy, toppy lot. Among these is one by Spellbinder, one by Correct Sunshine, one by Meddler's Medal, and three by Minstrel, he by Meddler 2d.

The fifty spring pigs that will be offered will be the tops of this year's entire crop. They are a nice, smooth, growthy lot with fancy head and ears, good bone and feet, strong thick-fleshed backs, and are reasonably well grown. They will be sold in lots to suit purchasers, and will be a decided attraction at the sale, as well as affording purchasers an opportunity to buy good young stuff at a reasonable figure and grow them out themselves. These pigs are all out of good, smooth, prolific dams and are by Correct Sunshine. Meddler's Medal, Imp's Likeness, and On's Favorite by On and On. Everything will be well fitted and in the best possible condition to do buyers good.

This will be an opportunity to buy good useful stuff at reasonable prices and although feed is high, hogs will be good property at present and future market prices.

Don't forget the time and place, Thursday. September 24 at Fredonia, Kans. Look up the advertisement on another page and write Mr. Sell for a catalogue.

Coppins' and Worley's Durocs.

Coppins' and Worley's Duroes

Coppins' and Worley's Duroes.

Coppins and Worley of Potwin, Kans., proprietors of Coppincrest Four Mile herd of Durocs were exhibitors at the Butler County Fair, where they won practically all of the principal awards. Their winnings were as follows:

First on aged boar, first on senior yearling boar, first and second on senior boar pigs, first and second on senior boar pigs, first and second on senior yearling sows, first on senior sow pig and second on junior sow pig. Their prizewinning boars were Chief Justice by Model Chief, and Coppins' Notch Higher, a grandson of Kant Be Beat.

Their exhibit attracted much attention and favorable comment, and was a credit in every way to these enterprising breeders.

Coppins and Worley have one of the largest and best herds of Durocs in that part of the State, comprising some of the most popular and up-to-date blood lines, and are prepared to furnish breeders and farmers first class breeding stock at reasonable prices.

Camp Life of Soldiers.

Practically everyone knows that the United States Government maintains a standing army of nominally 100,000 men and under stress of emergency can muster ten times that many more on short notice. But there are comparatively few who know anything of the life, the daily routine, of the regular soldier either in time of peace or in time of war.

war.
Within recent years it has become a part of the war department to assemble regular troops at different war stations once a year for the purpose of indulging

in mimic war. Still later the experiment of ordering large detachments, including every branch of the service, to assemble at favorable points for the purpose of public exhibitions, showing the daily life of the soldier in time of peace, the drills, marches, and training that fit him for the activity of war on short notice.

The first of these tournaments was held in St. Joseph, Mo., in September last year. So eminently satisfactory was this that a second and larger military carnival was ordered again this fall and it is considered not at all unlikely that the military tournament will become an annual feature with the war department.

The variation from the monotony of life in forts has a salutary effect upon the men and the prizes hung up afford a stimulus to them to strive for excellence in the various feats which are called for from them.

The coming tournament will bring to gether 5.000 men who will be in camp about a mile from the scene of the carnival performances and the camp life of the regular soldier, will afford one of the interesting features of the week of September 21-26 in St. Joseph.

A Paying Farm Proposition.

One of the best-paying farm proposi-ons an ambitious man can take hold is cattle-feeding either for market for milk

Now that agricultural science has given us an insight into the actual principles which lie at the foundation of the business, it is a mere matter of apply them in daily practise to get a good profit for ourselves. Feeding cornmeal or any combination of feeds, won't necessarily make beef or produce milk. Your steer or cow has got to milk. Your steer or cow has got to digest and use its ration or the manure heap will be the richer and you the poorer. In other words, the simple act of feeding doesn't always produce re-

of feeding doesn't always produce results.

Here is where farm science comes to the rescue. The new idea of feeding tells us first of all, that the steer or cow is like a machine, and that the feed each gets is raw material which we wish to turn into fiesh, fat, or milk. Now if your steer or cow, as machines, don't work properly, a greater or less percentage of your feed is bound to be wasted. That is, animal digestion must be absolutely right if the greatest grain is to be made.

But it's impossible to keep the stomach and intestines working right when they are constantly forced beyond natural limitations and is what every feeder of live stock is doing when feeding for market or for milk.

From which it follows that anything capable of continuing the digestive function in healthy activity during the weeks or months in which the fatting process is going on, will solve the problem to the feeder's satisfaction.

Experiment has proved conclusively that a preparation containing true tonic elements, blood builders and nitrates

(which are well known as cleansing the system) is an actual necessity in the cattle business. In fact the greatest success is impossible without it. Just as well expect to preserve your own health and stuff with rich food for a period of months as to expect your stall-fed steer or cow to do so.

stall-fed steer or cow to do so.

The "food tonic" idea has come to stay in the cattle-feeding business—success depends on it. Your animals must be "toned up" and strengthened by these mild elements which great medical writers, like Professors Winslow, Quitman, and Finley Dun, recommend as benficial. Give it to the horses; it will make them fitter and more salable. Lambs grow faster, swine fat quicker—indeed all live stock profit depends upon this tonic.

Each Excells Predecessor.

Judging by information from intending exhibitors received at the office of Manager Irwin, the Interstate Live Stock and Horse show to be held in St. Joseph, Mo., the week of Septembr 21-26 bids fair to take second place in the list of big live stock shows this fall.

in the list of big live stock shows this fall.

It is admitted by exhibitors who make the circuit of shows and fairs each year that no other one of the recognized live stock shows has as complete, convenient and commodious grounds for holding a show of such magnitude. Exhibitors who have been here at previous shows know that grounds and buildings are not only specially adapted for the convinience, health and comfort of exhibition stock, but they also know that from the opening of the show until its close, extra strenuous efforts are made in behalf of the exhibitor. At the finish of the show he gets what is coming to him and goes home feeling that the Interstate management has done its part well in the determining to make each succeeding show a bigger success than its predecessor. It is this that has made breeders and feeders of live stock who have been here once want to come again; and it is this that is bringing out inquiries for entry blanks that already guarantee the greatest collection of high class live stock for the Interstate Live Stock and Horse show in St. Joseph next month.

The Harvey County Fair.

One of the handsomest premium lists that has been issued this year by any county fair in Kansas comes from Harvey County. Liberal premiums are offered for all of the prominent breeds of live stock and they are based on a liberal classification. From the first page of this neatly prepared premium list to its back cover it indicates progress and Secretary L. G. Harlan and his coworkers are to be congratulated on their work. It is to be hoped that the day is not far distant when every county in Kansas will hold a fair such as is promised for Newton on September 39 to October 3.

Agriculture

Will Dynamite Loosen the Soil?

A good deal of my farm is underlaid with clay rock or slate under clay and some of it is very close to the surface. have read about dynamiting such land. In using dynamite to loosen the ground, how deep should the holes be? How much dynamite should be used per charge, and should it be tamped in? How far should holes be apart each way? Would such ground raise alfalfa after such treatment, and what would be the best crop to precede alfalfa to get nitrogen germs in the C. M. STEBBINS. ground?

Bourbon County.

I have not experimented in using dynamite to loosen the subsoil. Some use has been made for this purpose especially in parts of Western Kansas. As I have been informed, the holes for blasting are not sunk very deep; not over three or four feet. I have never heard of dynamiting to loosen the underlying rock and slate. The soils which have been dynamited have usually been underlaid with a hardpan subsoil and it is claimed that the dynamiting loosens up the soil, making it more pervious to water, thus increasing the fertility and productiveness of the soil.

If you wish to try dynamiting for loosening the land which you describe you will have to make a few experiments. Try placing the charges at different depths; experiment on the amount of dynamite to use, and by inspecting the work after the discharge you may determine about how far apart the charges will have to be placed in order to accomplish the desired results. After the caps and fuse are attached to the stick of dynamite the hole should be filled with sand or dry soil and tamped lightly.

The whole undertaking will be an experiment and I can not prophesy results. Such ground may grow alfalfa after it has been put into condition. It would at first probably be too loose to start alfalfa well. Usually alfalfa should be sown in the fall in your section of the State, and the preceding crop may be wheat or oats or some other crop which may be removed early in the fall so that a proper seedbed may be prepared. Cow-peas are a good crop with which to precede the sowing of alfalfa; also millet. On land such as you describe, this legume would be a good one.

Regarding alfalfa bacteria these may be supplied by securing soil from an old alfalfa field and distributing a small quantity of it over the field which you intend to sow, mixing it with the soil of the field by harrowing or disking. Three or four hundred pounds per acre will be sufficient to start the inoculation. I have mailed you circular letter giving further information on this subject. Have mailed you Circular 10 on "Alfalfa Seed and Seeding."

Should be pleased to have you keep me informed regarding your success with dynamiting. In fact, we may be able to cooperate with you in this A. M. TENEYCK.

Wheat for Dickinson County-Timothy Hay for Horses.

1. What kind of wheat could you recommend as best for Dickinson County, Kansas? Do you sell the seed, and at what price? Also, how is it shipped to the buyer?

2. Is timothy hay best for horses, next to prairie hay? Is there any reason why it should not do well in Dickinson County? Do you sell the seed, and if so, at what price?

I thought of sowing timothy with wheat this fall ahead of the disk drill. Is this a good way of putting in the seed? How much seed should be sown to the acre?

ABRAHAM BRECHBILL, JR.

Dickinson County.

I have mailed you Circular 11, giving information regarding the seedwheat which we are offering for sale. The hard red winter wheat of the Tur-

key or Russian type, such as the Kharkof, Malakoff, Turkey Red, and Crimean are best adapted for growing in Dickinson County. We have for sale a limited amount of the Kharkof and one variety of Turkey Red. Can refer you to growers of these several varieties. See enclosed list.

Timothy is the standard hay crop of the Middle and Eastern States and perhaps ranks next to good prairie hay for feeding horses. Timothy has produced very well at this station during the last five years and would give good crops in Dickinson County on bottom-land or well watered upland. We have no seed for sale but seed may be secured from seedsmen.

I would advise to sow clover with timothy, either the Mammoth Red or Alsike, the Alsike being preferred on the wetter land. The timothy may be sown in the fall with wheat as you have stated, in which case it will be advisable to give a light seeding of wheat, say about three pecks per acre, and sow rather early, not later than the middle of September. The clover should be sown in the spring and in case the timothy is sown in the fall the clover may be sown very early in the spring on the wheat, depending upon the natural conditions to cover the seed. Or, it may be advisable to sow both the timothy and clover in the spring on the wheat, very early, giving a light harrowing to cover the seed. Sow about 10 to 12 pounds of timothy with four pounds of Alsike or 6 pounds of Mammoth Red clover per

Usually I would recommend other grass than timothy for your section of the State. I prefer the Bromus inermis, especially on upland, sowing it either with clover or alfalfa; preferably with alfalfa. Plant 12 to 14 pounds of Bromus inermis with 4 or 5 pounds of common red clover or 6 or 8 pounds of alfalfa seed per acre. This combination will make good meadow and excellent pasture. Bromus inermis and alfalfa combination has proven to be the best, giving larger yields than other grasses or combinations of grasses and legumes and being more permanent and productive. When the grass and alfalfa are well set both seem to hold their own about equally well. The combination meadow makes excellent hay the first cutting and may be used either for hay or pasture after the first cutting; preferably for pasture, since Bromus inermis heads only once during the season. However, alfalfa will make several crops the same as it does when it is sown alone, and there will always be some undergrowth of grass. If the clover is sown with the Bromus inermis, I prefer to sow in the spring on a clean bed without a nurse crop. The grass with alfalfa may be sown in the fall with good success.

I am mailing you copy of Circular 10, giving information regarding "The Seeding of Alfalfa." Also circular letter on "Seeding Bromus Inermis."

A. M. TENEYCK.

Bromus Inermis.

I have my ground prepared to sow to grass and have decided to sow Bromus inermis. When would you advise me to sow it? I plowed the ground and have harrowed it twice and it is well pulverized and in fine shape, has a black soil with a hardpan subsoil. Could I pasture it next year without injuring it? I am sowing it for pas-Give me all the particulars about this grass, and in your experience as to whether it will pay. My ground is level, no wash in it. I live in the southeast corner of Ottawa County. English blue-grass has not proven to be a success where it was sown for pasture on adjoining land.

OTTAWA COUNTY FARMER. You may sow the Bromus inermis any time now up until September 15. I would not, as a rule, recommend to sow later than this date in your section of the State. Perhaps you should work the ground more in order to make the seed-bed more firm. However, rains may have packed and firmed the soil sufficiently.

It would not be advisable to pasture this new seeding of Bromus inermis

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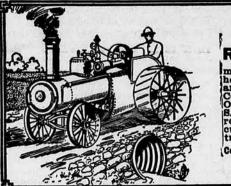
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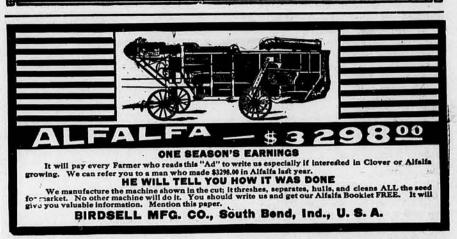
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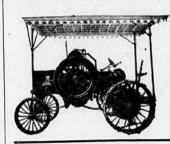
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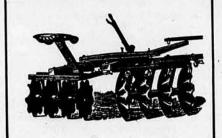
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next season, at least not during the early part of the year. You might pasture the aftermath in the late summer or early fall after having cut the first growth for hay earlier in the season. Bromus inermis should give good results in your section of the State, even better than at this station. I would advise, however, that you sow a little alfalfa with it for pasture, say about 12 to 15 pounds of Bromus inermis and 6 pounds of alfalfa seed per acre. The combination pasture appears to be a practically safe one for cattle and is more productive and permanent than the Bromus inermis alone. For further information I have mailed you circular letter on "Seeding Bromus Inermis;" also Circular 10 on "Seeding Alfalfa." A. M. TENEYCK.

Spelt.

EDITOR KANSAS FARMER: -In looking over your paper I see nothing about spelt. I am a spelt-grower and am now feeding it to my hogs and horses. I find it a good feed and would like to hear from some one who has grown it and the best way to grow the most per acre. A. W. JENKINS.

Miami County.

An Echo from the Conference of Governors.

A. H. BREEMAN.

What makes the difference between the Desert of Sahara and the United States? Before answering this conundrum not found in the almanacs. I will say that I assume the United States to be as near an earthly paradise as this world exhibits. Think of it as the Fourth of July orator puts it and add all the frills which he had no time to mention: Our interesting climate; our majestic rivers; our grand and mysterious forests teeming with life; our deposits of mineral riches; our broad and fertile plains turning swiftly under the hand of man from buffalo grass or sage brush to waving fields of corn and alfalfa; our song birds and the whistle of quail in the hedge-row. This picture of America is very alluring. It is unlike the terrible desolation of Sahara. What constitutes the difference? The answer is "Natural resources."

The Nation's birthday has recently passed, and those of us not too busy escaping the din of heathenish firecrackers, remember well the ringing words which tickled our vanity. The heft of the argument was that, "We are the greatest people in the world." Many of us believe it. We have done such wonderful things of which we may well be proud. Here are some figures worth inspection:

mote policies and movements for the conservation of the natural resources of the country. Something has been done already by setting aside forest reserves, and it will be a big task to rehabilitate forest areas already depleted. Plans to save the forests, build waterways, control mines, start irrigation projects, and such other large schemes which permit of direct governmental regulation, are of less concern than that most important problem of all-the conservation of soil fertility. Among other distinguished persons at the conference, James J. Hill delivered a stirring address upon this phase of national wastefulness. One difficulty lies in the fact that farm areas being comparatively small and held by many individuals, each fails to realize the importance of doing his share in the great movement for saving the soil for the next generation.

The conference gave its attention mainly to those National resources which are vast and spectacular. Immense waterways, irrigation schemes, great National parks, re-foresting burnt-over districts, all such are among the big things. No definite plan was proposed to save our soil from barrenness. Yet it is the big-gest problem of all. The solution is not uncertain. The average farmer is apt to be careless of what the soil means to him. Superficially it is a medium in which seeds are planted and where crops grow. He may not deliberately waste the raw material of his fields. He believes that in some mysterious way his crops will continue to yield bountifully as long as there is land. He sees no change in the appearance of his fields, and virgin richness has led him to believe in "inexhaustible" and "permanent" fertility.

It should be understood that mere bulk of soil does not make fertility, but the presence of plant food in the soil as part of it. A soil may be 30 per cent coarse sand and 50 per cent fine sand and yet appear fertile. Sand is not plant food. If plants thrive in such soil, they draw their sustenance from the fine particles of silt, humus, or such portion as will dissolve in water. Those portions of the soil which enable plants to grow are absorbed by crops. They are sold off the farm as hay, grain, live stock, etc., and every pound of farm products thus disposed of takes away from the soil just that much of its original store of "natural resource" or plant-making substance.

The elements which give us most concern as to future supply are phosphorus and potash. Every plant in the world needs large amounts of each

World.	United States. 1 Pr. Ct. U. S.	
Area, square miles	3,026,000	5.9
Population	86,000,000	5.9 5.2
Corn, bushels	2,592,320,000	78.8
Wiheat, bushels	634.087.000	20.7
Tobacco, pounds	698,000,000	31.1
Cotton, bales	13,346,000	71.3
Pig iron,tons	25,780,000	42.2
Petroleum, barrels	918,000,000	57.5
Copper, pounds	162,600,000	62.5
Gold, value	\$89,620,000	22.1
Silver, value	37,914,000	35.5
Coal, tons	455,000,000	37.3
Sulfur, tons	298,859	35.8
Phosphate rock, tons	1.978.000	54.4
Cotton, spindles	26,000,000	21.0
Railroad mileage	225,000	39.5

We are a Nation of big things. We and most soils are deficient in them. have shown the world some astoundmanufactures, agriculture, and citizen soldiery. But the American people have also shown a capacity for monumental foolishness. As wasters, we exceed the speed limit. No Nation in history ever used up with swifter pace and greater unwisdom the natural resources of its domain. It is not merely that we have rapidly depleted our forests until lumber is a luxury and floods are followed by drouth; it has been the work of a favored few who have grown over-rich. It is not alone that we begin to see the bottom of our coal measures and iron mines, but these marvellous deposits have swollen the coffers of other professional exploiters and the dear people, have made no sign.

Perhaps the most significant and important act of President Roosevelt's administration was the White House conference of governors in May. The object of the conference was to pro-

The only remedy is to put phosphorus ing stunts in organization, invention, and potash back on the soil in some form. Fortunately of potash there seems to be ample supply for future needs in the great deposits in the Hartz Mountains in Germany. It is a great deal easier to renew the robbed soil with potash than to build gigantic forests in a generation. The forms of this potash as we get it in this country are Kainit, an inexpensive salt combined with other chemicals, and sulfate and muriate of potash. The latter are highly condensed and while they cost more per ton, are cheaper in the end.

The discouraging aspect of this soil conservation problem is that we may not see our folly until too late. The work of establishing high fertility must be begun now while we are yet prosperous from the corn and cattle made out of our recent virgin prairies. Only a prosperous people can grapple successfully with the work of putting agriculture on a permanent business

basis. If you wait until you have lost your health it is a hundredfold harder to recover it than if you care for your health while you have it.

If fire consumes your uninsured factory you have an uphill job to get started again, yet with the factory in full blast, a fund could be set aside from the earnings to cover possible loss. With your farm well managed and in good tilth, the profits therefrom will not only supply your family needs, but maintain the soil itself. When your soil is reduced to unprofitable yields, where is the insurance fund for further fertility coming from? To constantly take away and return nothing to the soil is the old story of killing the goose which daily laid a golden egg.

The farmer is not properly a miner; he is a manufacturer. He converts raw materials into finished products, Wise is he if he keeps his supply of raw material above the safety mark.

There is a good deal of talk about soils having large amounts of "unavailable" potash sufficient to last a number of years. The truth is, that for practical agriculture, unavailable soil elements might just as well be at the bottom of the sea. In the course of time they will yield up their inert substance just as the ancient rocks finally disintegrated and became soil. While we are waiting for this slow process, we starve. It isn't pleasant to starve nor to contemplate even comparative starvation for our children. It will pay better to put available potash on the soil now. The increase in yield of crops will more than pay for the cost of the fertilizer.

Not Likely to Use Too Much Nitrogen.

I was very much interested in an article in THE KANSAS FARMER of July 30, "Story from World Famous Rothamstead Experiment Station." I was surprised to learn from the article that at that station they have shown that there is such a thing as having too much nitrogen in the soil for the best results, that, "Nitrogen increases the vegetative parts of the plant and an excess of it tends to make the plant go on growing too long and defers the production of flower and seed; it puts off the ripening. Excessive nitrogen has doubled the amount of straw but reduced the per cent of wheat grain from 62 down to 48 per cent. The more nitrogen in the soil the more water and less sugar in the beet. An excess of nitrogen makes the plant more susceptible to disease, especially fungus disease. . . . The diseased leaves are seen torn, shriveled, and rotten. Wheat fields get rusty and weeds are mildewed on high nitrogen land." I would like to ask, if while that is the case in the moist climate of England it might not be just the reverse in our drier climate. That is, one year with another would not our crops be larger if the plants were kept growing a little longer?

Another statement of Director Hall surprised me. He is quoted as saying, "He knew of no soils in England so stiff that they would not be benefitted by drainage. Some English lands are so hard the trenches can not be dug until after the Christmas rains have softened the ground and yet the drainage of these lands is most profitable. The benefit increases year after year." If such is the case there would not it be profitable to drain our gumbo land by tiling it, as I understand he means?

SUBSCRIBER. Chase County.

The report which you have read of the detrimental effect of nitrogen on wheat at the Rothamstead Experiment Station undoubtedly did not give the amount of nitrogen applied per acre. In these experiments the Rothamstead Experiment Station applies nitrogen greatly in excess of the needs of the plant and in a much larger amount than is ever applied by the farmer. When applied in the proper amount for plant growth, nitrogen is not injurious but is usually beneficial.

It is very doubtful if the application of nitrogen upon the soils of the drier climates would cause the plants to grow longer in the season and thus give a larger crop. It is usually the

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limited supply of moisture that checks the growth and not a lack of nitrogen. Without water, plants will cease to grow regardless of the supply of nitrogen in the soil.

Dr. Hall's opinion regarding the improvement of stiff soils by underdraining is held by most agricultural invesligators in this country. It is undoubtedly true that much of our gumbo land could be greatly improved by tiling, and undoubtedly much will be illed in the future, although in many sections of the country there is some question as to whether tiling would be profitable at this time.

G. E. CALL.

Greater Wheat Straw-Worm.

PROF. J. T. HEADLEE, ENTOMOLOGIST KAN-SAS STATE AGRICULTURAL COLLEGE, IN PRESS BULLETIN NO. 165.

Of the insects attacking the stems of growing wheat, aside from Hessian fly and chinch-bug, only one appears to have done enough damage to attract attention, and that has been the greater wheat straw-worm (Isosoma grande Riley). This insect has this year appeared in considerable numpers in many parts of the Kansas wheat belt and some of our correspondents have expressed the conviction that, in limited localities, it has done as much injury as Hessian fly.

OCCURRENCE.

We have taken it in abundance in Sumner, Harvey, and Riley Counties and have received it from correspondents in Pawnee and Russell Counties. It has doubtless been at work in many other localities, but, owing to the obscure nature of its work, has passed unnoticed.

OBSCURE NATURE OF WORK.

Of course the results of this insect's work are not always obscure. Sometimes it so weakens the stems that they break a short distance below the head and fall over. Ordinarily, as indicated by this year's study, the greater part of the damage appears in blasted plants, and in poorly filled or empty heads, but as this condition may also be the result of chinch-bug or Hessian fly work, the grower frequently attributes his loss to the wrong cause.

HABITS AND LIFE HISTORY.

Where it now is .- The greenish yellow, footless larva, one-fourth of an inch or less long, is now just above or in the joint inside the wheat straw, both as it lies in stack and remains on the ground as stubble. Our studies have shown that it may occur above or in any joint from the surface of the ground upward. At Manhattan about 70 per cent of the larvæ were found just above or in the second and third joints above the ground. The grower may determine whether this insect is abundant in his fields by splitting open the straws and looking for the larvæ inside.

What it will do this fall and winter. The larva will remain where it is until October when it will change into a black pupa and remain thus throughout the winter.

What it will do next spring.-About next March, small, pitchy-black, wingless, ant-like creatures, each about one-eighth of an inch long, will emerge from the infested straw and stubble and crawl, if possible, to growing wheat, where they will deposit eggs in the embryo wheat heads. The tiny grubs hatching therefrom will feed and fatten on this highly nutritious food, attain full-growth, transform and emerge about May as shining-black, winged, ant-like insects, one-fourth inch or less long. This brood appears to be made up entirely of females. They will deposit their eggs within the straw, usually just above the first exposed joint below the head. The grubs that hatch from these eggs will be the ones that will do the midsummer dam-

METHODS OF COMBATING.

Rotation.—When the grower has to deal with the greater wheat strawworm alone, and can find it practicable, the planting of the succeeding crop on a part of the farm distant from the infested stubble and straw

THE KANSAS FARMER

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Happy Prospects. Denver is rubbing its eyes, stirring itself in wonder, gazing in admiration at the great tracts bursting into green and growing crops of alfalfa, corn, wheat and fruits, etc. (Explanation of cuts below.) White-faced farm houses, broad-gabled barns, bowing maples, pink-blossomed orchards, dairy farms, wheat and corn fields greet gladdened eyes at every angle. Campbell's "Soil Culture" is making wealth for Colorado farmer and manufacturer, for merchant and implement maker, for mail order concern and local merchant.

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lawns, watch them grow as you nurse and tend them. Be free!

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Photo at left. These are stacks of Alfalfa on the farm of D. J. Shearer.

Photo at right. An enormous potato field—40 acres—harvesting over 8000

lbs. to acre—320,000 lbs. in all and sold on the ground for \$3200.00.

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will enable him to avoid damage from this insect.

Destruction of stubble and straw .-This is the surest and in many cases the most convenient way of controlling the straw-worm and also the jointworm. The stubble may be burned or plowed under so deeply and carefully that none will be left sticking out to form passageways for the adults when they come forth the following spring. The straw may be destroyed by fire or any other convenient method. Inasmuch as the joint-worm is known to inhabit grasses such as frequently grow in the fence-rows about the edges of the wheat fields, and as our studies would indicate that some individuals of the wheat straw-worm may have a similar habit, it would be well to burn off or otherwise destroy the grasses along the fences before next spring. If both Hessian fly and strawworm be present, the grower has but to destroy stubble, straw, and grass along fences and to practise late sowing to avoid serious injury from either of these pests.

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How little it costs if we give it a thought,
To make happy some heart each day!
Just one kind word or a tender smile,
As we go on our dally way;
Perchance a look will suffice to clear
The cloud from a neighbor's face,
And the press of a hand in sympathy
A sorrowful tear efface.

One walks in sunlight; another goes
All weary in the shade;
One treads a path that is fair and
smooth;
Another must pray for aid.
It costs so little! I wonder why
We give it so little thought;
A smile—kind words—a glance—a
touch—

touch—
What magic with them is wrought! -McCall's Magazine.

Do You Care?

In just a little while the children with dinner buckets and books will go trooping to school. Some will go reluctantly, and with backward looks, longing to remain at work or play at home—some joyfully, happy to lay aside implements of agriculture, to drop the hoe, and let loose the plow handle and once more to lay hold of books, not with the hand but with the mind, eager to learn, but perhaps the majority are those who go thoughtlessly and carelessly because the vacation is over and the time has come again to go to school. Mothers are busy getting them ready, that they may always be neat and well dressed. The mothers are glad for them to have an opportunity to learn, but how many know the school teacher or what her influence will be over the precious ones? How many have been inside the school house or know anything about the sanitary condition of the buildings and the well? Yes, I know how many things you have to do, but this is one of the important things that should not be eliminated. Nine months of the year your children will be in this room under the influence of this teacher, and you have a right to know, and it is your duty to know the conditions that exist.

Country schools are improving. More care is used in the selection of teachers year by year, but they should have the best that can be found. The country school teacher requires a special training and should possess un-usual ability. She should be able to meet any emergency and be an inspiration and leader. The school is the social center as well as the educational center, and the influence that goes out from the school tells upon the community.

The teacher's character is reflected in the lives of the young folks, if she or he has a character strong enough to make a reflection. The teacher's opportunity and responsibility in the rural districts are unlimited and unrestricted. Therefore the burden she carries should be shared by the mothers and fathers, and they should contribute liberally towards her salary. If these teachers require a special training and should be specially fitted they deserve a better pay than the ordinary one. Farmers are abundantly able to secure the best in everything, and the best is coming their way. The very best things that you can give your children is not more quartersections, but better environments-social, educational, and spiritual. You can have the best by going after it and paying for it. See that your teachers are what they should be, and are well paid.

If you want the teacher to be interested in your children, to care for their welfare, you must show interest in them also. You would like to have the place where your children spend much of the time clean, healthful, cheerful, and comfortable. You would like the old room transformed but you do not know what to do. There are many things I might suggest, but if you become real interested you will find a way. Just one, hang upon the dirty wall a beautiful picture, nicely

framed and see if it does not lead to something better. The teacher and pupils will want to have a housecleaning time and tint the walls, clean the windows, and hang curtains, etc. Once a lady gave a little girl with dirty face and hands a beautiful white She gazed at it a long time in admiration and then looking at her hands, she ran and washed them. A very little thing if it is a step upward will lead to something better. It will at least show that you care.

The Model Country School Teacher.

It is an inspiration to hear about great advancements and forward movements even out of Kansas. U. J. Hoffman, who is giving special attention to country schools, tells in an address before the Illinois Country Teachers' Association how one country school teacher transformed not only the school house but all phases of life in the community. Some extracts are here given:

THE REMODELED BUILDING.

"The hall was clean and bright with its light-colored linoleum and walls in a good shade of green paint; it could not be told from the hall of a dwelling. The room had a large bay window with cosy seat and cushions. The new wall paper was quite plain in different shades of brown, and the colors of paper and paint harmonized well. Two good pictures, one being "The Gleaners," hung above the blackboard. A piano stood across one corner. New single desks, plenty of new blackboards, a bulletin board, two low tables, and several small chairs in front, curtains, rugs, and everything appropriate to the work done there.

"The new basement was built of concrete blocks and the floor of concrete. A furnace occupies one corner and two tables were in the rear; These were used for manual training and meals. The floor was left clear of benches for whatever work or play might be desired. Off one end was a small storeroom, and a larger coal bin. There is a good board walk to the door, the well is completely covered with a large, flat stone; the old coal house is gone, and the yard has been much improved.

ALL TOO FAMILIAR A PICTURE.

"But the conditions two years ago are told as follows by Director F. G. Bonser, of the Macomb normal training school:

'The paper was old and dingy; the blackboards cracked and useless; the plaster missing in spots; the window panes, broken, gone, and paper patched; the seats, old and double, and elaborately decorated with "the jackknife's carved initial;" the stove, an ordinary unjacketed affair. The teacher's first work was sweeping cobwebs, scrubbing floors, and stove polishing. The yard was large and well shaded, but marred in front by the presence of the usual dilapidated coal house. The outbuildings were mere shells, disgracefully open and scant of boards.

GOT A COUNTRY TEACHER.

"President Alfred Bayliss of the Macomb Normal School, knew Miss Carney as a country school teacher of unusual success and thorough normal training, and he secured her to develop this typically needy rural school and make it a training school for student teachers. The only financial help given the district is that of providing the teacher. The reconstruction cost the district \$568. The boys painted the house and fence and put on the basement ceiling, made a book case, work tables, and other pieces of furniture, and the piano was to be paid for largely by the children's efforts.

"The teacher has gone out into the homes of the patrons to see their needs and to get their view points, and to carry to them the view points and desire of the school to be a living,

helpful thing in their work and in their whole lives. Mothers' meetings have been held, evening meetings for entertainment, social intercourse, and general improvement. A girls' culture club, including young women outside of the school as well as girls in school has been formed. Money making socials have been held. The teacher has enlisted the help of every one of her thirty to thirty-five children, and every patron who can aid in any way. And the results are worthy all the ef-The school's influence has changed the lives of the people in matters of dress, of household decoration, of keeping front yards and back yards, of ventilating rooms, of attendance on lectures and entertainments in the neighboring city; of their reading, of their farming, and of their plan for the higher education of their children. This school is literally socializing and spiritualizing the school district.

THE SALARY SHE GETS.

"No salary is big enough to pay for such work. The teacher's principal pay is in seeing this whole community respond to her magic touch and make so fine a growth toward the new country life of the new farmer, in thus holding out to many a student and visiting teacher a new picture of what a country teacher can do, and in knowing that these teachers will repeat some part of it in their own districts. Under the charm of such rich returns she scarcely knows that she does the work of two or three.

THE MYSTERY OF IT.

"What is the secret of this teacher's power to enlist a whole community in such happy improvement? Once upon a time she picked up a great ideal and an ambition of the same size, and with the growth of these her soul is not her own. She gives her very self in making the lives of the children 'large and lovely.' She can not be made to see that these new things are impossible and goes right ahead and does them. She has gone to the pains to get a thorough normal training that puts a plot into all her work, an edge to all her implements, and a steady hand to use them. Among the incidentals are an emotional nature and an outgo of influence that but for these unconventional traits might pass for magnetism.

"This is a dangerous and dynamic combination. Let others beware of contracting such a gravitation or 'something will be doing' in their lo-

SOME OF THE NEW METHODS.

"Spraying their fruit trees without benefit has made the farmers disgusted with the practise. Discussion in school and examination of agricultural bulletins showed that the spraying had been done at the wrong time and the farmers corrected the error. In arithmetic, problems in stock-feeding, fence-building, etc., were worked out. In studying about the home the teacher and class made trips to look at homes, talked about the plan of a house, visited furniture stores, studied the lighting and plumbing.

"Two farmers sent their sons to our College of Agriculture for the two weeks' corn instruction in January, and one will return for a year or more of study.

"A class is assigned work and sent to the basement to do it, or left to study while the teacher goes to the basement to hear a class. Sometimes a class or two recites out under the trees. The teacher trusts them and they respond to her faith. She explains it, 'They care for the school as much as I.' Sixty visitors have been present at a time, and twenty-four county superintendents have visited this school. Students elect to take their teacher training here.

"From gross carelessness in dress, thinking that anything would do for school, the children have come to show taste and pride in appearance. Miss Carney 'gets acquainted with the children' and makes them know she 'cares for them,' the pith of it being that she does care for them. In teaching music she had the children learn about

Pianos On Credit

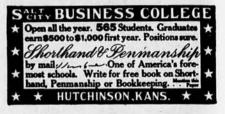
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ON COMMON GROUND.

"It is fine to see the confidence, freedom, and fellowship between this teacher and her pupils; it is a mutual affair and 'the real thing.' Unconsciously they are taking in the finest things that stir life.

"Only some of the unusual results are here told; good work in the common studies is of course of equal importance. But is not all this true education, the best of growth, and well suited to rural life?

"To Miss Carney these seem plain, natural results of so much labor; she says that a great deal of such work is being done by country school teach-

ers.
"True, every rural school can not have a Miss Carney for teacher, but every true teacher, no matter how different her individuality, can do some of this much-needed work and can learn to do more of it."

Teaching Girls to Cook and Sew.

The fifteenth large stone building and the largest and finest that has been erected by the great State of Kansas for the education of the farmers' boys and girls will be dedicated this week to the very practical work of teaching girls how to cook and sew and how to teach others to practise these arts. And here they are taught as arts, as arts of right living.

The new building, 92x176 feet, stands on the south end of the great semicircle, west and south of the auditorium. Every foot of space seems to be utilized, three full floors, all devoted to class rooms and laboratories and kitchens. One of the new features added is the small kitchen for a group, a dozen kitchens and four beautiful dining rooms in addition to the three large kitchens for classes. The young ladies will be given thorough instruction in everything pertaining to the cooking of foods, meats, vegetables, baking of bread, cakes, and pies, making soup, salads, etc. Hygenic sanitation, etc., are also taught, invalid cookery, etc. Then the matter of service is given much attention, and cooking on a small and fixed allow-

The first floor and the basement are devoted to cooking while the beautiful second floor is given over to the domestic art work, sewing, home decoration, etc. Girls are taught carefully everything from the plain mending and sewing to the draughting, cutting and fitting of elaborate gowns. Then another course is given in home decoration and girls are given practical problems relating to the entire planning and furnishing of both small and plain homes to the more elegant homes of wealth. At the south and east is the "exhibit" room, probably the finest room on College Hill.

A few years ago two teachers did all the work, then one or two low salaried assistants were employed but now the domestic science and art departments include a teaching staff of twelve. In addition to the regular staff there are three teachers of drawing, a teacher of physical training, and a teacher of floriculture, who are really a part of the faculty of these de-

partments. The faculty is as follows: Mrs. Mary P. Van Zile, professor of domestic science and dean of women; Misses Ula Dow, Marjorie Russell, Clara Willis, Grace H. Woodward, Bertha M. Johnson, and Annie E. Lindsay, assistants; Miss Antonette Becker, superintendent of domestic art and, Misses Ina Cowles, Gertrude Stump, Mary W. Hancock, and Bertha L. Donaldson, assistants.

The domestic science and art short course of twenty-five weeks opens this year with the regular term, September 16, and altogether there will be at least seven hundred young ladies here before the end of September. Shortcourse students will not be received

after September 17. The value of the training given in this department can not be overestimated.

Deco: The Young Folks

THE CITY COUSIN.

He's my own cousin, mama says; but my! he's awful green!
Because he's always lived in town and so he hasn't seen
So very many things. He said he never milked a cow,
And all the grass he ever saw was in a yard till now!
He never gathered roasting ears, and it's the first time he
Thew up a stick to knock down nuts and ate 'em off the tree!
And he don't know where honey grows and never learned to swim!
My! I would hate to be that old and not know more than him!

When he is home there ain't a creek and so he never goes

A-fishing, and he hasn't got a suit of real old clothes,
The kind you have to have to fish; and he says he can't go

Barefoot with us because the grass and weeds would hurt his toe!
He won't chew slippery elm bark or beeswax; he's afraid
Of it because he told us that he don't know how it's made;
And he won't dig up angle worms because they wiggle so;
I never saw the place he lives, but my!
it must be slow!

He don't know what a spring board is, and hasn't got a hat
That you can dip a drink up with—he never heard of that!
And if it's raining in the woods he hurries up to get
Back home because he's so afraid he'll get his straw hat wet,
One day we killed a garter snake—they don't have them in town—
And he don't know the tail won't die until the sun goes down!
And he is sorry that he never came down here, the more
He thinks of all the things he's learned he didn't know before!

Still I suppose he has to live some.

Still, I suppose he has to live somewhere, but it must be An awful thing to live so long and never climb a tree,
Or plug a watermelon when you think it's ripe or wear
The kind of clothes that you can rip and do not need to care;
Or dive into the creek or sit upon the bank and get
Your back all freckled up and burned until you feel it yet
When it is time to go to bed! He never learned to swim!
My! I would hate to be that old and not know more than him!

—J. W. Foley, in New York Times.

-J. W. Foley, in New York Times.

Vacation Days.

The "Indiana" left the Goodrich docks on Water street, Chicago at 7:50 p. m. As every one knows the Chicago River is not beautiful to look upon but it is a means of getting on the lake, which is beautiful. The docks across the lake at Grand Haven were reached by 4:20 the next morning.

The "Lizzie Walsh" was tied up ready to take us up to the spring lake, but owing to the fact that the engineer was drunk or drowned, no one seemed to quite know which, the town was ransacked for another, so we were delayed an hour.

How can I describe that morning ride? The lake was smooth and the banks were wooded from the water's edge to the crest of the low hills. In every cove was a landing either belonging to some one's home or to a summer resort. Craft of every description were tied up, for it was too early for many people to be abroad.

My destination was Arbutus Banks, a landing where was a picturesque little boat house with two launches inside, a half dozen row boats drawn out in the bank, and a couple of sail boats, each tied to a buoy.

Friends, whom I was to visit, met me and after climbing a flight of stairs with numerous landings and benches whereon to rest, we reached the great brick house. It had once been the private home of a family, but so many friends had requested the pleasure of staying there that now each summer many people spend happy days or weeks there, the latter if possible. The farm extends up through the dense woods to the top of the hills and down to the lake. Orchards of fruits, berries, melons, and vegetables, cream, milk, and eggs, and a good cook, furnish an excellent table.

After breakfast there was such a variety of things to do. One may walk through the woods, and it is such a



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delight to trample over the leaves that are beginning to fall; or he may play tennis, or croquet, or sit on the spacious screened porch and talk, or read, or perchance an Indian squaw will happen by with a load of sweet grass baskets. And always there is fishing, and isn't it strange how often we may go fishing and never catch a thing, and it still holds the same fascination for us? It's simply one of

those great and interesting games of

Then there is sailing, which most appealed to me. It too has its great fascination and the more trips one takes in a well built skimming dish the more he loves it. Catching the wind now this way, now that, splashing people first on one side, then the other, now up right, now tipped to such an angle that it most takes one's breath, but with a good sailor one does not feel in the least frightened, especially if the men are all good swimmers.

Every morning we sailed down to Spring Lake for the mail. It is a tiny village with old houses, and quaint old-fashioned gardens, and great trees. Trips were made up the lake and down past beautiful summer homes, past fashionable hotels, past a shipbuilder's yard, and the lake was full of craft of every description, the luxuriant \$3,500 mahogany finished motor boat, the sail boat, the gasoline or naphtha launch, row boats, canoes, everything that would stay on top of the water was brought into service. The "Easy Life," an \$1,800 motor boat, just returned from Mackinac Island some four hundred miles up the Great Lakes, but it was a trip few people would care to make in so light a craft. Luxuriant yachts anchored in front of fuxuriant homes, rise and fall with the tide for the lake is not large enough for some of them.

Just one familiar object greeted my eye. I was told to look up the bank. among the trees in the next cove, and there stood a real California bungalow. It gave me a queer sensation just as when a fruit wagon went by, piled high with boxes of Redland's oranges.

Then one night after supper, we got in a skiff and rowed across the lake to a farm where a Scotch family lived. They have bees and a fine vineyard and from their own still make a wine that is quite noted here and most people take a good sized case of each back to the city with them. The night was perfect, the sun had slipped into a bank of gorgeous clouds and as the shadows deepened and the moon came over the hills, I wondered if it were just another story I was reading, or if I were really I. The landing was just a plank out in the lily pods, but the blossoms, like everything, were going to sleep. It is such a lazy, dreamy, restful life to live; every one is happy and I'm sure that happiness goes with one the whole year through. And what shall I say of the people? Interesting of course. The proprietor and his wife were very genial people, always looking to the comfort and happiness of their guests.

There was the garrulous old man, who did Swedish stunts for his health and whom every one shunned. There was the millionaire and his wife and two sons, such pleasant unpretentious people. There was an old lady and her two old daughters, one of whom they called "Sweetie," and no one ever stopped long enough to find out what the other one did go by. There was a mother and daughter and her chum, young high school girls with rats and huge bows and loud voices, ordinary to the point of being common and yet a foreigner who was there insisted they were typical American girls. This foreigner, by the way, was called the "Million-dollar Kid," since one day the men, before putting on their bathing suits, turned their treasures, watches, scarf pins, and purses over to us to care for. He drew out of his pocket \$1,035 in bills, rather more than a man ordinarily carries loose. He wore handsome jewels, which he said he got from the Austrian crown for his fiancee who, by the way, died and as some one remarked, "probably lucky fiancee."

There was a noted lawyer, whose name was seen in the papers a great deal a year ago. There was a charming woman and her beautiful daughter; and there were some jolly bachelors. And one night there was a birthday dinner given for one of them. A beautiful birthday cake with candles, ices, salads, bon-bons, and favors came up from Grand Haven. Toasts were given and if any one slept before 12 that night, it was not due to the quietness of the dinner party. Then one night there was a storm, a dreadful thunder storm! We had been sailing all the afternoon and came in about half past five. The wind was stiff even then, but quickly grew fiercer. The gray sky in the north grew grayer and by six o'clock we saw the first lightning, so far away that we couldn't hear

the thunder, then it came nearer, the forked lightning was seen one at a time, then in every direction half a dozen places at once, claps of thunder followed one another so closely and how it did rain! By 8 o'clock the storm was on in all its fury. One could see, by the almost continuous light, the lake and in each cove were the boats pulling and tugging at their moorings, lashed and beaten by the storm, the trees swayed, the lake was covered with whitecaps and the Storm King reigned in all his majesty. Every one was on the porch in rain coats or serafe, fascinated by the awfulness of it. By 10 o'clock it had abated somewhat, but in half an hour had returned with redoubled fury, as if it had struck an indomitable wall and had been returned with all the force of the contact.

The sky was constantly lighted and one could not get his breath between the claps of thunder. Each blast seemed louder than the last and a little nearer, and I was sure each time that the next would certainly strike the house. A great pine, some five hundred feet from the house was splintered and the phone was burnt out, but aside from that no damage was done. Never have I spent such a night, and I hope it will never be my misfortune to spend another such. I was frightened, not stiff, but limp, and by the time daylight came did not have strength to brush my skirt. It's a mystery to me why people live in such a place where these storms are liable to happen at any time, when there is such a place as "Dear old California, her skies are always blue."

Then the last day of my visit came and how I hated to think about itthe storm was over then. A last sail up the lake, a last look at the wooded banks, and the last jolly supper together, the signal went up for the Lizzie Walsh to stop and just as she bore in sight they suggested taking me to Grand Haven in the launch. Now I had been for some delightful trips in it before and the engine had never thought of missing a stroke, but it's a first cousin of the automobile and therefore not to be depended upon. It lost a beat now and then, sputtered, fizzed, and stopped, leaving us in the middle of the lake, several miles from Grand Haven and the Chicago boat scheduled to leave port in an hour, a passing launch was hailed, we were towed to the nearest landing, suit-cases were hurriedly gathered up and a dash made for the electric car, which came by in just fifty minutes. There were still seven minutes and not quite as many miles, but the boat was reached before the gang plank was shoved off, a hasty good-by, and thus came to an end a happy visit to a Michigan lake and happy days spent with a high school MINNIE WOOD.

Pasadena, Cal.

Never Met One Before.

The butler, tired of having nothing to do, had gone out to the stables to commune with the coachman, and was nosing around in his usual dignified

"My word!" he exclaimed, looking with some curiosity at an implement he had just picked up. "That's the biggest safety razor I ever saw. How do you put the blades in it, Jawge?"

"Safety razor!" howled the coach-"You bloomin' idjit, that's a currycomb!"

The only trouble about making your mark in the world is that some fellow may come along and spill a bucket of paint on it.

Dress Hints.

I am fond of brown, and folks say it is very becoming to me, but I have never been able to get this color in thin dress goods that didn't fade. Do you know of an inexpensive, thin material that doesn't fade?—A. S. G.

There is a charming material called Simpson-Eddystone Fast Hazel Brown, made by a new process that makes it absolutely fast-color. Frequent washing does not fade it in the least. These goods come in many beautiful patterns, and I should say, would be just what you want. The price is very reasonable, and they make up into as stylish and attractive dresses as the high-priced cottons.

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approval, if you don't find a saving of 15 to 50 per cent, under the lowest prices, cash or credit, anywhere.

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The Little Ones

WHY?

MARGARET RAMSEY, WYANDOTTE COUNTY .. "Say, why don't the sky fall down gra'ma?
Did they nail it to make it stay?
Are the heads of the nails the stars,
gra'ma?

Then why can't we see 'em to-day? "Why didn't they make Heaven here,

gra'ma—
An' let folkses live in the sky?
The angels would not have so much to do then.
They could just let us drop when we die.

"Why don't the clouds sail down to us sometimes, 'Stead of way up so high as they do?
I'd love to slide off of that big, sowy Up yonder, gra'ma, wouldn't you?

"Will you have to wear specs up in Heaven, gra'ma? Who'll find 'em for you when they're lost? Will you have to give pennies to angels

"Did they make you of stuff that was old, gra'ma,
An' faded an' wrinkled, an' tore?"
"I'm tired—I guess I will sleep a while

How much do Heaven specs cost?

now, When I wake, you can ast me some more."

Aunt Marion's Story.

Aunt Marion had scarcely had time to get her wraps off, she had come to visit the Ward family, when Dorothy threw her arms around her aunt's neck and whispered, "Auntie Marion you will tell me a story pretty soon won't you please?" Aunt Marion smiled and said, "Right after lunch, dear, when you go to take your nap I'll tell you a story."

It seemed to never would come but of course it did and even at the table Dorothy reached over and patted Aunt Marion's hand and smiled, such a knowing little smile, then they ran off up stairs hand in hand and when they were comfortably dressed in their cunning little Japanese kimonas this is the story that Dorothy heard: "Once upon a time out in the orchard stood a peach tree. The peaches had been so big and pink and juicy. Fred had picked baskets full and mother had preserved them and even now there were great rows of them on the cellar shelf. They had them sliced with sugar and cream on and they had taken a basket of them across to Mrs. Lane, who was old and did not have any peach tree. And now not a peach was left on the tree. Even the leaves were putting on their party dresses

Heart **Troubles**

The heart may be weak just the same as the eyes, stomach or other organs. It often happens that a person is born with a weak heart. Then again disease, fevers, over-exertion, anxiety, nervousness, rheumatism, etc. weaken the heart. The result is shortness of breath, palpitation, pain in the heart, or in some of the nerves of the chest or abdomen. The heart should be strengthened with a tonic, and for this nothing equals Dr. Miles' Heart Cure.

Dr. Miles' Heart Cure.

"I had LaGrippe last fall as I thought in a mild form. I was weak, tired feeling, and short of breath; could hardly go about, and a good deal of the time sort of an asthmatic breathing and extremely nervous. I began taking Dr. Miles' Heart Cure and Nervine and now I feel so much better in every way. I am so thankful that I began taking this medicine, and shall not hesitate to tell others how much good it has done me."

MRS. F. J. NORTON,

Freeville, New York.

Your druggist sells Dr. Miles' Heart Cure, and we authorize him to return price of first bottle (only) if it falls to benefit you.

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Miles Medical Co., Elkhart, Ind

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MENRY W. ROBY, M. D.

of yellow and gold and red. The wind came singing by and took a lot of them down on the ground and they danced and sang and then some more came down and joined them.

Away up in the top of the tree was a little green leaf who wanted so much to have her party dress and play with the others, but the mother tree whispered to her, "Not yet, not till your work is done." So she rocked in the wind still another day and helped take care of the tiny leaf baby, putting more little rubber coats around her to keep her safe and warm from the rain and cold of the winter. Then again the little green leaf asked, "Mother tree may I have my party dress now and play with the other leaves?" And the wind brought the message, "In a few days, now, finish your work and you shall have the most beautiful frock of all." Each day, bit by bit, she did her work well and one morning, lo, she had such a dainty yellow ruffle and the next morning it was yellow and gold and then, happy little leaf, some red had come to her that day and now her party dress was gorgeous to behold. She rocked in the wind. A robin chirped a goodby to her, a belated butterfly touched her with his gorgeous wings, and everyone seemed to be singing a happy goodby song. She rocked so hard that soon she let go and down on the ground she fluttered and flew and there with all the other leaves had such a frolic, but after while they grew so tired and every one went to sleep and made such a beautiful warm blanket for the violets that grew under the tree." Aunt Marion got up quietly, for Dorothy was asleep, too.

MINNIE WOOD. Pasadena, Cal.

\$000000000000000000000000000000000000 Horticulture

Catalpa and Osage Orange Fence Posts.

Will you please give the the relative value of catalpa fence posts compared with Osage orange fence posts? Nemaha County. E. R. MURPHEY.

So far as durability tests have gone, catalpa and Osage orange posts have compared very closely. There are, in experiment station vineyards, posts which were set eighteen years ago, and both species are yet in good serviceable condition, with sound hearts and evidently good for many

years yet. Aside from durability, both species have some points of superiority. The catalpa is much nicer to grow and handle because of the lack of the thorns found on the Osage orange, and requires less pruning to grow a straight, marketable post. The catalpa is rather more rapid in growth than the Osage orange, and measurements seem to indicate that under average conditions, catalpas at seven years old equal in size Osage orange trees of twelve years. Osage orange posts are considerably stronger, in posts of given size, than catalpa posts, For purposes of heavy strain, Osage orange is superior, but for any fence purposes the catalpa is sufficiently strong. The catalpa is lighter and nicer to handle, and the difference in freight, on a given amount, when shipping is a considerable item. The same is true when the posts must be

hauled any distance. Some ranchmen prefer the Osage orange to the catalpa, believing that the latter is more easily kindled than the Osage orange, and more likely to burn in case of prairie fire.

Each species have the ability to reproduce from coppice growth, or sprouts, and is practically perpetual.

Osage orange is, perhaps, better adapted to high, dry lands than is catalpa, but in such conditions its rate of growth will be slower than when on good, rich, fairly moist soil. The figures given above, as to the relative size of the growing posts, are based on experiments made on good, rich, farm-ALBERT DICKENS. ing land.

We have a word for the people who are still buying goods the old-fashioned, hit-or-miss way, and are paying several profits for goods that may or may not be right in quality.

For nearly 40 years we have been saving money for our customers and more than that, giving them Quality Insurance.
With over a hundred expert buyers devoting their lives to knowing
just one line of goods, it is scarcely possible for anyone to supply us with
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Catalogue No. 77 is the Harvest of a Year's Careful Planning

Our buyers have gathered together all the high-class things from the markets of the world. They have been careful of the price but more careful of quality. All these things are shown in the 1200 pages of our new catalogue. Faithful pictures of the goods, honest descriptions and low prices are what we aimed at in getting out this encyclopaedis of values. Some of the things are pictured in color, just as they will look in your home.

You will save one-half on lots of things, one-third on others; and maybe only 15 per cent on a few items; but QUALITY is the key note. Even at no saving at all you would be the gainer because of the house that stands back of your purchases. The risks YOU used to run in purchasing an article of which you were not an expert judge WE cheerfully take, because whatever you our estilled twas good value.

Remember, this modern method of buying will give you as an isfaction and service that you will never want to leave, Just consider for a moment what a power is behind your purchases. The risks YOU used the world and you are entitled to one if you want it. It is a guide to one if

Send me the new, large No. 77 Catalogue without charge.

To Make the Rambler Flower.

The Rambler roses need no pruning in the ordinary sense. When the plant has become matted with the old canes and the wood so hardened that it is even difficult to make an impression on it with a knife, vigorous cutting out is essential to flowers.

A healthy plant will send up from its base strong, healthy canes if those that have flowered are cut out immediately the flowers are past. These young shoots will flower in abundance next year.

Rambler roses can be used in many other ways than tacked to the side of a building. They are particularly effective trained upon posts. I have seen them pegged down to the ground and other ramblers trained on frames, the whole when in flower giving the appearance of a cascade of roses.-L. J. Doogue, in the Desert Farmer.

Green Manures.

There is perhaps no more important problem before the fruit-growers than that of maintaining the fertility of their orchard lands. In spite of the fact that our growers seem loath to abandon clean cultivation, a few growers in the various sections are proving that it is both possible and profitable to grow crops in the orchards for manurial purposes.

The writer was much interested in inspecting a number of orchards in the vicinity of Paonia, Colorado, that were planted to red clover a year ago last spring. These include some of the oldest apple orchards on the Western slope. At the present time the clover is making as rank a growth as is often seen in the Eastern States, and contrary to what one might expect, the clover grows the rankest close to the trees where the shade is densest. One often hears the argument advanced by fruit-growers that one could not get sufficient growth of clover or other crops in the orchard to make it pay unless spraying and other team work were abandoned. These results at Paonia prove that clover will grow well in spite of the dense shade of large apple trees and the tramping of horses, wagons, and men.

There are many things that must be





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worked out yet in regard to the handling of these crops. It is generally conceded that fall plowing is best for orchards in Colorado, particularly if clover or other crops are to be turned under. But the lady bugs and other predacious insects have multiplied to such an extent in these orchards that both the green and the woolly aphis have been nearly exterminated. We could not afford to plow in the fall if by so doing these insects would be seriously disturbed. We may find, however, that predacious insects have multiplied to as great an extent in orchards that have been in clean cultivation. Many other things must be considered as well.

We have always strongly insisted that our orchards would be materially benefited if the ground could be shaded during the hot weather. This contention seems to have been proved this season by the use of clover, but further observations must be made before correct conclusions may be drawn.-W. Paddock, Colorado Agricultural College.

Dairy Interests

Milk Production-Feeding.

BY HERBERT A. HOPPER, PURDUE UNIVER-SITY EXPERIMENT STATION IN CIRCU-LAR NO. 13.

(Continued from last week.)

CARBOHYDRATES.

Carbohydrates include such substances as sugar, starch, and crude fiber as they exist in the different foods. This group constitutes the larger part of the food consumed by farm animals, and when burned in the body, it furnishes the heat and energy for body functions and muscular activity. They are actually burned within the animal, the heat not needed to maintain temperature being thrown off. Milk solids draw heavily upon the energy of the cow. When carbohydrates are fed in excess of the demands of the animal body, fat may be formed. They are the source likewise of milk sugar and butter-fat.

FAT.

Fats or oils are common in both plant tissues and seeds, and in the animal body, where they are characteristic of the species. The rough fodders contain comparatively small amounts while cotton-seed, flax-seed, and corn contain large amounts. Fats perform the same function in the animal body as do carbohydrates, with the exception that they are 21/4 times as valuable. Fats and carbohydrates are interchangeable, one may take the place of the other, but neither can assume the function of protein. No more muscle can be replaced or built up, or casein produced, than there is protein in the food. Protein can take the place of carbohydrates or fats when either is deficient, though this is an expensive substitution, but no amount of carbohydrates or fats will make up for a deficiency of protein.

FOOD OF MAINTENANCE

The vital activities of the body require a certain amount of food for their support. This is called the maintenance requirement or the maintenance ration. A cow weighing 1,000 pounds in normal condition on the average will require .7 pound protein, 7 pounds carbohydrates, and .1 pound of fat in a digestible form, to maintain her without gain or loss in weight. such a ration supplies nothing for growth, work or other purposes. Its importance lies in the fact that returns in the form of a product can not be expected until something more than a maintenance ration is being consumed by the cow. So long as the cow makes proper use of her food, the more she will' eat above maintenance needs, the more profitable she will be. Cows that are hearty feeders usually yield profits.

DIGESTIBLE NUTRIENTS.

Not only is there a difference in the digestibility of the total dry matter in different feeds, but there is likewise a difference as to digestibility of the proteids, carbohydrates, and fats from different sources. There is a difference between total nutrients and total digestible nutrients. The digestible nutrients are the only ones considered in making up ratio

PROPER FEEDING.

In order to meet the food requirements of any cow, the composition of her milk and food should first be known. This knowledge can only be obtained through chemical and Babcock tests of the milk, and through feeding experiments to determine the amount and relative value of the various nutrients the animal is able to obtain from the foods in question through digestion. Countless samples of milk from cows of different breeds and different grades have been tested while their food requirements were being studied. The digestible nutriments that all the common foods contain on the average are now known, as well as the amount of digestible protein, carbohydrates, and fats that the ordinary dairy cow requires in order to produce 1 pound or 100 pounds of milk of known composition. The approximate composition of milks testing 3, 4, 5, and 6 per cent butter-fat is given in the following table:

Table 1.-Composition of Milk. Protein carbohydrates per cent. 2.8 Carbohydrates per cent.

From the above it will be seen that, as the butter-fat increases, the protein content of the milk increases. Also, that the carbohydrates increase up to 5 per cent butter-fat, when they apparently cease to follow. It shows that a cow testing 5 per cent butter-fat requires more protein in her food than a similar cow producing only 3 per cent milk. It has been shown, as would reasonably be expected, that the food requirements increase in quantity proportionately to the increase in quantity of any particular grade of milk, so that we should supply the protein and other nutrients according to the quantity as well as the quality of milk produced by the cow in question.

Of course, more food is needed than the mere composition of the milk would indicate. All foods and especially dry forage, will vary somewhat from the composition indicated in the table of digestible nutrients. There is a waste in converting the protein of the food into the protein of the body or the casein of milk. Mastication, digestion, and elaboration cause an expenditure of energy, so that to the productive part of the ration must be added the maintenance or energy producing part before all the nutrients needed are determined. The following table gives the nutrients required for the production of one pound of milk of the quality indicated

mink of the quant,	y muicat	eu.	
Table 2.—Feed	ding Stan	dards.*	
For milk testing.	Protein lbs.	Carb.	Fat
3.0 per cent fat 3.5 per cent fat 4.0 per cent fat 4.5 per cent fat 5.0 per cent fat 6.0 per cent fat Daily maintenance 100 lbs. live wt.	045 048 051 054 057 060 per 07	.19 .21 .23 .25 .27 .29 .31	.013 .015 .018 .018 .019 .02 .022
Prof. T. L. Hae			220
NITERINA ROR MA	INTENANO	IN AND	PRO-

DUCTION. From the table just given it is easy to calculate the nutrients required by any cow providing her weight and the quality of her milk are each known. With a cow weighing 1,100 pounds and yielding 35 pounds of 3.5 per cent milk daily, the calculation would be as follows:

In this way it is learned that the

cow will require in her ration 2.34 pounds of digestible protein, 15.05

maximum standard requirements for a

1,000 pound cow.

problem then becomes one of using the farm grown and other foods to best advantage, while satisfying the appetite and providing the nutrients needed in the right proportion. For the beginner, it is a matter of cutting and trying. However, there are some rules to be followed. An average cow will consume from 20 to 25 pounds of dry hay or roughness per day. When silage is used more total roughness will be eaten. For ordinary feeding, the grain will vary from 1/3 to 1/2 the weight of roughness in the ration. When cows are forced it may reach % the roughness. These amounts are to be varied of course with the weight of

Pro. Carb. Fat. 7.7 .52 15.05 the animal and the product. A variety in the grain portion of the ration is usually more satisfactory than to em-

pounds of digestible carbohydrates, ploy a single ingredient, though cirand .63 pound digestible fat. Table 3, cumstances will need to dictate in some cases as to which will be more computed from table 2, gives in conprofitable. With 30 pounds of corn venient form for ready reference, the silage usually 10 to 12 pounds of clover hay will be eaten. With this 4

Table 3.—Maximum Digestible Nutrients per Day for a 1,000-Pound Cow for Maintenance, and the Yield and Quality of Milk Indicated. Protein lbs. 7.0 .01 0.7 $10.80 \\ 11.60 \\ 12.80$ 1:7.3 (3 per cent butter-fat..1.96 12.70 .49 1:7.1 (5 per cent butter-fat..2.41 15.70 1:7.0 (3 per cent butter-fat..2.38 (4 per cent butter-fat..2.62 (5 per cent butter-fat..2.98 1:6.8 1:6.7 (3 per cent butter-fat..2.80 (4 per cent butter-fat..2.90 (5 per cent butter-fat..3.55 1:6.5

In general, the amounts here indicated should be reasonably well adhered to, though exact conformity is not essential to good results. They are offered as practical guides, and should be used as such, though amounts in excess of those indicated will hardly prove profitable except in rare cases where the individuality of the animal dictates differently.

SELECTING THE FOODS.

Assuming that all the requirements of the cow have been determined, the pounds of cornmeal and 3 to 4 pounds of wheat bran or ground oats, or their equivalent, should be given. Oil-meal should be fed only in small quantities. 1 to 2 pounds, because of its loosening effect upon the bowels. Cottonseed-meal having a slightly opposite influence can be fed in quantities somewhat greater than can oil-meal. It is wise to make as large a use of corn as possible, both as roughage and grain, 4 to 5 pounds of cornmeal being about the maximum to be safely fed continuously.



The physical nature of the ration requires attention as well as its nutritive properties. All ruminants require bulk in their food, though this point needs little attention where hays are fed freely. Heavy grains like cornmeal, pea-meal, cottonseed-meal, and various grades of middlings should be fed in combination with ground oats, wheat bran, etc., in order to improve the physical condition of the mixture and thus facilitate digestion. The selection of foods should be made with these thoughts in mind.

 \star

PRACTICAL FEEDING.

Economical results in milk production must be sought through a greater production and use of farm-grown foods. The amount of grain which dairymen are now feeding varies from 7 pounds to 25 pounds per day, depending upon the individuality of the cow. In all but exceptional cases, medium quantities of both roughage and grain usually give better results than heavy feeding of either. In so far as nutritious hays like clover and alfalfa can be comfortably consumed, their nutrients are as available for producing milk as are the nutrients of the concentrates. The only reason for feeding grain, is that the cow can use more nutrients than her capacity will permit her to obtain through the consumption of bulky material. Heavy feeding of grain, except where cows are being fed for large records,



A Bird's Eye View of a city doesn't do justice to it, because it only gives an idea.

The same applies to this advertisement; it only gives a small idea of the Tubular qualities.

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THE SHARPLES SEPARATOR CO., West Chester, Penna.

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regardless of consequences, should give way to a liberal use of leguminous hays and silage, and such amounts of grain as are needed to furnish nutrients not already furnished by the roughness. Ordinarily, the amount of grain will vary from 6 to 12 pounds where nutritious roughness is supplied abundantly. It is not usually desirable to restrict to one kind of grain or mill feed as previously explained. When attempting to produce a ration entirely upon the farm, economy may dictate somewhat less variety than otherwise. Too much emphasis can not be laid upon the importance and use of farm grown foods, for the common grains combined with corn silage, alfalfa, clover, or cow-pea hay will give the same yield of milk and butterfat when rationally fed, as will the mill feeds, and on the whole they have a tendency to produce better results.

The herd should not be fed in a careless, wholesale fashion, but the requirements of each animal should be studied from the quantity and quality of her milk, making such allowances as are necessary for her particular weight. The standards previously referred to enable the feeder to determine each cow's requirements. For the practical dairyman it will be sufficient to divide the herd into groups considering their stage of lactation, amount of production and age, and compound a ration from the foods available, that will suffice for each group. Scales are essential in feeding a well-managed herd, as in determining their records of production. The amount in any case will soon be learned, and the labor will be found to be no greater than in the ordinary careless manner of feeding, but the results will be vastly superior. As the cows advance in lactation or the foods are changed, it will be necessary to calculate the rations anew.

(To be continued.)

Over-Run and Salaries.

In Denmark the salary of a buttermaker depends on the over-run he secures. This compels him to give attention to this important feature of his work. The law limits the amount of water he can incorporate, so there is no danger on that point, but it makes the buttermaker who gets a 12 per cent over-run "sit up and take notice." The Danish Governments assist the creamery in this as well as other features of creamery work and many analyses of butter are made at the Government laboratories.

In that country of keen competition and small profits the success of a creamery depends on the over-run it

secures and uniformity in over-run is also important. It will not do to get 13 per cent one day and 18 per cent the next. The 18 per cent butter may get the creamery in trouble and the 13 per cent butter will mean a financial loss. Our readers will be interested to note the results secured by one of the instructors in an Eastern dairy school. His record shows for seventeen churnings a water content ranging from 14.2 to 16.3. Only two of these churnings ran less than 15 per cent water, and only two ran over 16 per cent. The records which he kept show the date, kind of churn used, pounds of cream, test of cream, pounds of butter-fat, temperature of cream, buttermilk tests, temperature sprays, fast gear revolutions, temperature water fast gear, revolutions slow gear, temperature water, revolutions for salt, pounds butter, over-run, and per cent of water.

In matters of this kind complete records aid materially in controlling the work, as it gives a basis of comparison from day to day. The temperature of the cream will vary as well as the temperature of the atmosphere, and unless these are watched and studied it is impossible to control the over-run.—New Zealand Dairyman.

Under the direct supervision of Chief Ed. H. Webster of the Dairy Division there will be held a dairymen's convention at the third annual National Dairy Show in Chicago at the Coliseum, December 2 to 10 inclusive. It is the purpose of this convention to deal with subjects of National importance, and the program will be filled with men who will be eminently capable of dealing with subjects of the highest interests to dairy farmers.

Let the light into the cow stable,

The Port

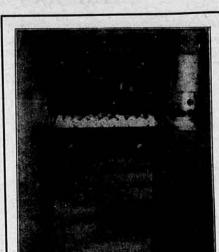
CONDUCTED BY THOMAS OWEN.

Poultry Notes.

Don't waste good grain and valuable time this winter on scrub hens. It doesn't pay. You can not afford to feed them, especially with the high prices of chicken feed. If your hens are not giving you from twelve to fourteen dozen of eggs apiece during the year, you are not making as much money out of them as you ought. It takes about eight dozen eggs a year to pay the hen's board and keep, and if she falls below that you are keeping her at a loss. Get rid of the mongrel stock you have and start in with purebreds. The scrub hen is causing a loss of millions of dollars every year.

Now that meat is so high a great many farmers are butchering their own beeves and hogs. In some communities they have cooperative societies for supplying the members with fresh meats, one member butchering one week and dividing the carcass among his neighbors and another member the following week, and so on till all have butchered. In nearly all these butcherings the blood of the animal is allowed to go to waste and to speak for here is where we want the hen. This blood, if saved and mixed with cornmeal, makes the best kind of feed for laying hens. If it is desired to keep the blood for some days, it can be placed in a pot on the stove and cooked, when it will thicken and keep for quite a length of time.

On almost every farm there is a shed that is fairly dry all through the winter. In this shed throw dry leaves or cut straw or hay to the depth of ten or twelve inches. Nail a board at the front of the shed so as to keep the leaves from being scratched out, and in this litter, scatter the whole grain you intend to feed your chickens. They will scratch for it the whole day long and in this way secure exercise while getting their feed. The leavings of the hay mow is capital stuff to use



The best incubator ever made.

Notice the Hen Feathers

It sells on sight.

It hatches every egg possible to hatch.

Write for prices and catalog.

THE HEN FEATHER INCUBATOR CO..

Mfg. Incubators and Brooders

Dept. H. - Blackwell, Okla.

in such a shed, especially if there has been alfalfa or millet in the barn.

If roots and ensilage improve the health of animals, and cheapen the cost of the food, as claimed by agricultural experts, they will do the same thing for fowls. Now that feed stuffs are so high in price, it is too expensive to feed grain exclusively, when the winters are long and severe, and as the hens prefer a variety of feed, they should have it. A quart of cornmeal, added to half a peck of turnips, will provide a better meal than can be procured from either the cornmeal or the turnips if either are fed alone. It is the mixed food, the combination of various elements, that enables the hen to provide the different substances that make up the combination called an egg. Lime, phosphates, nitrogen, magnesia, and even water, are elements that are absolutely essential, and many foods contain an excess of some kinds and a deficiency of another. When a mixed food is given, there is a partial balancing of the needed elements, and the several varieties assist in digesting each other, thereby avoiding waste of undigested food. Finely chopped ensilage, or clover or alfalfa, potatoes, turnips, carrots, beets, or any succulent bulky food, served with an admixture of a variety of ground grain will provide the hens with a larger supply of egg elements and entail less loss for food than when the hens are compelled to subsist entirely on grain and the cost is very materially reduced.

When you watch the hens on a free range, they seem to be eating during the whole day, and the supposition is that they get more than they should. It is true that they can secure more than enough on a range when everything is growing, but they also expend a great deal of energy in so doing. On the range the hens get a little at time, perhaps a worm here, a seed there, or some delicacy in the shape of green food somewhere else, but they are ever moving from place to place, and are as busy as possible. It is a different matter when they are confined in a small yard and are fed everything they eat by their owner. He throws down the food and they fill their crops at once. Having done so they are satisfied and "wax and grow fat." There is a lesson to learn from the natural mode of feeding by the hens. Give them their food in small quantities and not all at once. If grain is fed, throw it among some litter so that the fowls may scratch for it and not gobble it all up at once. When the crop is overloaded, too much food is passed into the gizzard to be triturated, and the digestive organs are overtaxed, but when the food is eaten gradually and slowly, digestion is also gradual and the system is invigorated by the exercise of securing the food. The study of how best to feed will assist in avoiding mistakes and enable one to feed at the lowest cost.

The father of one boy runs only half the risk of having it turn out badly as does the father of two.

When writing our advertisers please mention this paper.

PLYMOUTH ROCKS.

Duff's Barred Rock Winners at half price during summer. Fine spring chicks and 1-year-old breeders. Send for circular and prices. A. H. Duff, Larned, Kans.

REMEMBER—That I have a choice lot of young stock coming on. All Smith's laying strain Rocks. Choice breeders. Prices right. Chas. E. Smith, Mayetta, Kans.

White Plymouth Rocks

EXCLUSIVELY.

For 16 years I have bred W. P. Rocks ex-clusively, and have them as good as can be found anywhere. I sell eggs from first-class, ligh-sooring stock at live and let-live prices. per 15, \$5 per 45, and I pay the expressage any express office in the United States

Thomas Owen, Sta. B, Topeka, Kans.

RHODE ISLAND REDS.

PURE Single Comb Rhode Island Red Cockerels, 50c to 75c each. J. N. Barntrager, Garnett, Kans.

BRAHMAS.

Light Brahma Chickens

Choice pure-bred cockerels for sale.
Write or call on Chas. Foster & Son, Eldorado, Ks. Route 4

WYANDOTTES.

BROWN'S WHITE WYANDOTTES—Ahead of everyting; stock for sale; eggs in season. I have the English Fox Terrior dogs. Write me for prices and particulars. J. H. Brown, Boyero, Colo.

LEGHORNS.

SINGLE COMB Brown Leghorn Cockerels for sale. February hatch. Address F. E. Town, Ha-ven, Kans.

FIFTY S. C. B. Leghorn cockerels, founded by stock of prize-winners, Chicago World's Fair; headed by cock from Washington, D. C., Experiment Station; 81 and \$2 each. Head cock, \$5. Mrs. Pleas ant G. Eads, Route 4, Clark, Mo.

S. C. Brown Leghorns.

Early hatched cockerels, \$1.25 each. Lots of six, \$5. Per one dozen, \$10. A few yearling cocks for sale. Write for prices on pens, pairs or trios.

L. H. Hastings, Quincy, Kans.

BUFF ORPINGTORS.

BUFF ORPINGTONS—1500 utility, January, February, March hatched cockerels and pullets to sell. Buy now and get the pick. Price will advance next month. Catalog free. W. H. Maxwell, 1996 McVicar Ave., Topeka. Kans.

CHOICE Buff Orpington and B. P. Rook cockeres. Collie pure and bred bitches. Send for circular W B. Williams, Stella, Neb.

SCOTCH COLLIES.

SCOTCH COLLIE PUPPIES—Natural born cat-tle drivers. Pedigreed stock. W. Hardman, Frank-fort, Kans.



SCOTCH COLVIES—Pups and young does from the best blood in Scotland and America now for sale. All of my brood bitches and stud dogs are registered, well trained and natural werkers. Emporia Ken-nels, Emperia, Kans. W. H. Richards.

Scotch Collies.

ones. Walnut Grove Farm, Emporia, Kans.

Incubators and Brooders

If you want a good Incubator in a hurry write to the undersigned. He keeps the Old Trusty Incubator (hot water) and the Compound (hot air), two of the best Incubators made. Also the Zere brooder, no better made. It pays to buy a good brooder. No use hatching chicks without a good brooder to raise them. The Zero will raise every chick you put in it.

THOMAS OWEN. Sta. B Topeka. Kang.

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Census Returns of Assessors.

(Continued from page 947.)
the population of the State. Four
new towns appear in the 1,000-orover class. They are: Syracuse,
which gained 121 in the year, Alma,
which increased 83, Scranton and Solomon with 390 and 159 more, respectively. Of these Scranton re-entered
the list after an absence of two years.
Five towns, Kiowa, Strong City, Curranville, Jewell, and Almena, have
dropped below the 1,000 mark.

There has been considerable shifting this year in the rank of the leading cities. Kansas City, of course, continues in first place, with a margin of more than 37,000 inhabitants over Topeka, which is still second largest. established herself more firmly in third place with her large increase, having gained appreciably on Topeka, while Leavenworth, losing, still ranks fourth. Pittsburg, with 70 people less than last year, nevertheless advances two points in rank, and is now 5th. Coffeyville is 6th, as before, but lost 155. Atchison, whose inhabitants were enumerated in 1908 for the first time in three years, shows a decrease of 1.468 in that time, and recedes in rank from 5th to 7th place. Independence has gained a point and is now 8th, changing places with Parsons, which is 9th. Salina and Emporia changed places, the former advancing. Ottawa rises from 19th to 17th place, Newton 20th to 18th, and Manhattan 28th to 25th. Great Bend increased phenominally, having gained nearly 38 per cent in population, and seven points in rank, now being 28th. Garden City, which made even more striking gains in the two years preceding, retains its last year's rank, 34th, but shows a slight loss,

Other noteworthy changes in rank are shown by Caney, which in 1906 was 44th, and has jumped from 39th place in 1907 to 29th place in 1908; Paola, which advanced from 44th to 36th place; Olathe 46th to 40th place, and Girard 52d to 47th place. Council Grove is now 50th in rank instead of 56th, Anthony 52d instead of 62d, Pratt 57th instead of 87th, and Mineral 75th instead of 108th.

Liberal, which entered the list in 1907 with a 54 per cent gain, continues to grow, reporting 28 per cent more inhabitants this year, and going forward 20 points, to 102d place. Arkansas City, another Cowley County town, has dropped from 17th to 19th place, Concordia from 27th to 30th place, Norton 31st to 37th, and Herington 32d to 42d. Holton lost 4 points in rank, and is now 45th. Frontenac goes from 43d to 48th place, and Burlington from 51st to 62d place. La Harpe and Gas, both in Allen County, show decreases, the former dropping from 49th to 61st place, and the latter from 76th to 96th place.

Changes in Kansas as Seen by Professor Waugh of Massachusetts.

EDITOR KANSAS FARMER-About fifteen years ago I joined the "formerly of Kansas" crowd and acquired a residence in New England. Now for a month I have been renewing my youth in a vacation on the plains of Kansas, which I find still seem like home to me. Nothing else can ever be so vivid and real to me as the sunflowers, the jack rabbits, and the level fields of blue-stem. It is a fine experience to get back here for a time, as I suppose it is for any man to revisit the scenes of his boyhood. Everything interests me, but naturally I find myself most occupied with agricultural conditions. And as every man who thinks is always making comparisons, my mind has been full of comparisons between the agriculture of New England and that of Kansas. I have found equal interest, too. in comparing Kansas of to-day with the place I knew fifteen to thirty years ago.

There have been great changes in Kansas, and I suppose I see them more plainly than do the people who have lived here all the while. Some of these changes strike me very force ably.

The first thing that strikes one is

the unquestionable and unbounded prosperity of agriculture in Kansas. Of course the farmers of Kansas always have been prosperous,-except, perhaps, in '92-'94. But now they seem to have beaten all the prosperity records and are so well off that they hardly know how to act, like a boy who has just been accepted by his best girl. I have recently visited the Southern States and know that they are also surprisingly prosperous; and I know that New England agriculture is in a most flourishing condition; but nowhere is prosperity so obvious and so conscious of itself as in the Sunflower State.

Connected with this area of good times is the surprising rise in land values. Already land is selling higher in Kansas than in the Eastern States,-in some cases at three or four times the price. I mean of course for land of equal productive capacity. Kansas people are entirely proud of this fact, and seem to be willing to keep up the boom. It seems to be considered a brave and proper thing to do, though I confess to my misgivings. This higher capitalization, when the pinch comes, will prove a serious handicap for farm owners to carry. In the past agriculture has been relatively more profitable in the West than in the East partly because of lower land values; but in the future this advantage will lie with the Eastern States.

After an interval of fifteen years I find great improvements in agricultural practise. Corn-growing in particular is much improved. There are still many improvements to be made, but better varieties, better seed, and better methods of cultivation have done wonders. Wheat growing shows much less improvement. The introduction of alfalfa has been an agricultural revolution in itself. The magnificent alfalfa fields on every hand, not one of which existed here in my day, are a constant delight.

The improvement of live-stock has evidently gone forward rapidly also during the last fifteen years. In almost every pasture I see high grade Shorthorns, Herefords, and Polled Angus. The hogs are almost as much improved. Even the poultry shows signs of throwing off its nondescript character and assuming the proud uniformity and patrician air of pure-bred stock. In the olden times the cattle were mostly scrubs or Texas long-horns.

Rural free delivery and the telephone lines have wrought another revolution. When I was a Kansas boy I used to go eight miles aboard my cow pony for the mail; and if I wanted to get together a gang of thrashers we had to drive fifteen or twenty miles about the country to do it. Now one calls the neighbors up on the telephone and attends to the whole matter during nooning. course rural free delivery and telephones are not peculiar to Kansas. They may even be better developed in the East; but present conditions offer a sharp contrast to the situation which I so well remember.

There are many other changes which I notice,—the most of them in the way of improvement, but a few with offsetting disadvantages. But it is fine to come back once in a while and see the old State boom; and it makes one feel like carrying some of the Kansas enthusiasm back to the comfortable conservative regions of the East.

F. A. WAUGH.

ie East. Plainville, Kans.

Automobile License.

EDITOR KANSAS FARMER:—Having bought a touring car, I would like to know if I am required to have a State license? I am twnety-five miles from a the county seat and six miles from a third class city. I have heard we do not. If I am obliged to have a license for Kansas, please tell me from whom I am to get the same, as I want to be on the safe side.

Reno County. A READER.

We are plased to advise you that
there is no State law in Kansas requiring a license on automobiles.



Nearly all of the larger cities have adopted ordinances governing the registration and numbering of automobiles, but while a bill was presented at the recent session of the Kansas Legislature, it failed of passage, and it is not necessary for you to carry a license number, or to register your car unless you are living in a city which has a registration ordinance.

It is not customary to require the registration of vehicles in their occasional visits to a community where registration laws exist, so we think you will have no trouble in visiting any of the cities about you.

W. J. V. DEACON, Treasurer Smith-Automobile Co.

Extravagance in the Rural Districts.

The average cost of carrying a ton of goods a mile by lake is eight-tenths of a mill, and by rail seven and sixteenth mills. The average cost of carrying a ton of goods a mile on first class roads is said to be seven cents, and on common country roads twenty-five cents.

The latest report (made by the Department of Agriculture for 1904) shows 2,151,570 miles of public roads in the United States, of which 7.14 per cent were improved. In old, populous and rich States, such as New York, Pennsylvania, Illinois, Michigan, improvements were reported on less than ten per cent of the public roads.

Almost every pound of freight originating upon or destined to a farm moves over a country road, at a cost some three times as high as it would be if the road were first class. Some times the goods actually pay a heavier toll for a few miles' carriage between railroad station and farm than for all the remainder of the journey.

The railroads themselves spend millions to clip off one or two per cent from operating expenses, here and there; and, if farmers were presented with a feasible scheme for reducing their railroad freights even one-quarter, they would feel that there, indeed, was a burning issue.

Road improvement receives much more attention than formerly, but much less than it deserves.

Stock Interests

immunity Against Anthrax.*

BY E. C. L. MILLER, M. D., OF THE DEPART-MENT OF MEDICAL RESEARCH OF PARKE, DAVIS & CO.

For centuries smallpox was a frightful scourge with no known means of checking it. During this time it was observed that one attack usually made the subject immune ever after, so that no matter how much he was exposed to infection, he did not acquire the disease.

PRINCIPLES OF IMMUNITY.

Then inoculation smallpox was introduced in 1722, and so great was the danger from smallpox that thousands submitted themselves to this new danger in order to avoid the greater.

*Reprinted from Veterinary Notes, December, 1907,



Inoculation smallpox consists of inoculating a healthy person with the virus from a mild case of smallpox. The fact that the virus was from a mild case, together with the small amount used, usually caused the patient to have but a mild attack of smallpox, from which he usually recovered, though some died. This mild attack, however, gave protection from future infection.

The next step was about 1780, when Jenner discovered that those infected with cowpox were also, to a large extent, immune to smallpox. Jenner, himself, considered cowpox as in some way an attenuated form of smallpox, which it must be or it could not protect one from the virulent smallpox infection. Since the time of Jenner there has been practically no change or advance in the methods of preventing smallpox.

Advancement in the knowledge of preventive inoculation then moved from England to France and centered around the name of Pasteur. Pasteur, about 1880, noticed that cultures of the bacillus of chicken cholera, when grown for some time in bouillon in the laboratory, gradually lost their power to produce the disease, but that fowls which he had attempted to kill by injecting them with these old cultures were thereby made immune to subsequent inoculations with fresh cultures. In this way Pasteur discovered his method of vaccination with attenuated bacterial cultures. He soon applied this method successfully to anthrax, which was killing many sheep and cattle in Europe, and his method has been in use, practically unmodified, from that day to this.

IMMUNITY AGAINST ANTHRAX.

Our knowledge of pathology has been constantly increasing. We know that bacteria in the body are destroyed by the leucocytes, and that immunity is produced as a result of this destruction. Futher, that dead bacteria are destroyed by the leucocytes just as live ones are, and that immunity is equally the result. In vaccination with live cultures, attenuation is necessary in order not to kill the animal, but if the culture be attenuated too much it does no good-it is promptly destroyed by the leucocytes and no immunity results. It must be attenuated to just the right point, so that it will grow and multiply in the animal to such an extent that when the germs are finally overpowered by the leucocytes there will be enough of them to produce im-

Now, as the natural resistance of animals varies, the amount of development of the germs will vary also from a very slight amount to enough to even

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kill the animal. This variation in the amount of germs can not be controlled nor can the amount of immunity produced be known. One must expect a large amount of variation when one depends on the growth of the germ in the animal for the production of immunity. If it could be done, it certainly would be much more satisfactory to inject an animal with a definite amount of some dead germ product, which, by its absorption, would produce immunity, than to depend on the growth of the germs in the body. Not only would the resulting immunity be more uniform and certain, but it would be entirely without danger to the animal-in marked contrast to vaccination with attenuated cultures of anthrax where the death-rate, especially among sheep, is so high as to make its use very unsatisfactory.*

"ANTHRAXOIDS."

The Department of Medical Research of Parke, Davis & Co., has been at work on this problem of producing a satisfactory dead anthrax vaccine for several years, and at last, apparently, has solved it. The product, which is known as Anthraxoids, contains no live anthrax germs. It is put up in the form of small pellets which are injected under the skin by a special injector. Here they are rapidly disintegrate, and, by their absorp-

our animals from anthrax resolves itself into this: Shall we infect them with an attenuated culture of anthrax and chance their multiplying sufficiently to produce the required immunity, but not enough to kill the animal, or shall we inject them with a definite amount of the immunity-producing substance?? There ought not to be any doubt as to the auswer.

Horticulture

How to Grow Better Fruit.

The great need of the present time is not that the growers shall produce more fruit, but that they shall produce better fruit-or to put it another way, that they shall produce more fruit of superior quality. We don't fear overproduction of any fruit crop which can be marketed over a long period of time, like apples, if the quality is right. But the experience of the season just closing has demonstrated that a very small quantity of low-grade fruit is entirely too much.

How shall better fruit be grown? We are speaking of apples, especially. Let us quote from Professor Gould, who is in charge of fruit district in-

THE KANSAS FARMER MADE HIM.

Farmer boys and girls, who read the following letter from one of your number, you can do as well, and you can help your friends to do as well. Write The Kansas Farmer Company for our list of premiums and we will

help you. Here is the letter: "I found The Kansas Farmer a most useful farm paper and with the knowledge acquired from it, together with the Kansas Experiment Station bulletins and my home training on the farm I was enabled to pass a civil service examination and receive an appointment in the Government

"The farmer who plods along in his grandfather's steps, does not keep up-to-date by reading the best farm papers and applying the knowledge thus gained could not pass this examination.

"The Kansas Farmer first gave me the desire for more knowledge of Respectfully, up-to-date farming. "WM. MORTON."

tion, produce immunity. The process apparently causes the animal no inconvenience—there is no loss of appetite or other signs of sickness, nor is there swelling or tenderness at the point of injection.

Extensive experiments have been carried out to demonstrate the value of this product. Horses, cattle, and sheep in considerable numbers have been vaccinated with these Anthraxoids, and, after a suitable time, have been inoculated with a live, virulent culture of anthrax. The results of these tests show that the animals are protected for several months against an infection which promptly kills an unvaccinated animal. Field tests have also been made, and large numbers of animals, after being vaccinated, have been allowed to run on infected pastures without suffering the death losses shown by unvaccinated animals.

BECENT ADVANCES IN IMMUNITY.

Although this product is somewhat of a departure in the veterinary field, it is not without parallel in modern scientific medicine. The soldiers of the British army, before proceeding to the tropics, are injected with killed cultures of typhoid germs, and are liable to thereby rendered much less acquire typhoid. The armies of other European countries have adopted similar measures, and the results are highly satisfactory. Sir A. E. Wright's now famous Opsonic Therapy is based on the same principle. In diseases where there is an inadequate absorption of the caustive germ or its products, Wright has achieved great success by injecting the patient with a killed culture of the germ in question. By the absorption of the injected germs the patient's resistance to that germ is increased and his recovery

The question of how best to protect

*Various attempts have been made along this line for tuberculosis. Koch, in his new tuberculins, depends on the mechanical disintegration of the dry germs by grinding, and Behring extracts the immunity-producing substance by mechanical means.

vestigations of the United States Department of Agriculture, and whose work takes him into every orchard section of America. He is a keen observer, and what he says may be accepted as coming from one who knows.

"As a general proposition, the growing of better fruit means greater attention to details-more thorough cultivation, more pruning, a more liberal use of fertilizers, more spraying, more everything that contributes to the improvement of orchard conditions. In the case of some orchards it may mean the complete abandonment of them as such, digging them up, and starting new ones in locations better adapted to orchard purposes. In all sections where I go I see orchards which can never be made profitable because of their location. Poor atmospheric drainage is perhaps the most common fault where the locations are faulty. Good atmospheric drainage is perhaps more important than good soil drainage; at least, in this respect, that it is more often possible to correct poor soil drainage than it is to improve improper air drainage.

"But all sorts of obstacles are raised against these more intensive methods. Perhaps the most universal one is lack of time in view of the demands of other farm work. And right here is the difficulty. A great majority of farmers are attempting to do a few things on too large a scale. They are spreading their efforts over too much ground. Do not misunderstand me on this point. I am not trying to discount the large farms, the large enterprises, nor the large orchards, but I would, in my scheme of management, limit the size of an orchard to that which comes within the ability of its owner to handle it by intensive methods. The experience is multiplied times almost without number that the orchard is made to wait for attention until other farm work has been done. But if the orchard is maintained as a source of revenue in a system of general farming, I venture the assertion (Continued on page 966.)

DISPERSION SALE

Registered Hereford Cattle

Gedar Point, Kans., Thursday, Sept. 24, 1908

My Entire Herd of 120-Thoroughbred Herefords-120

Consisting of 6 toppy yearling bulls and my 3-year-old herd bull Quick, 87 extra good cows and helfers from 1 to 6 years old, and 27 lusty, well grown calves. These cattle are choice individuals and richly bred, tracing to such sires as Anxiety 4th, Lamplighter, Don Carlos, Corrector, Peerless Wilton, and Garfield; and comprise the best foundation animals from the well known herds of Howe & Son and I. E. Lambert of Emporia, which I bought last spring, but am now selling because I can not get the right kind of help to properly care for them. This will be a complete dispersal of this great herd. All will be sold at public auction to the highest bidders, without reserve. My offering comprises some of the best foundation females, and will afford a great opportunity to breeders.

I will also sell 10 head of good horses and colts, and a few registered Berkshires. Sale will commence promptly at 10 a. m. and will be held at the ranch 2 miles south of Cedar Point, Kans.

For catalogues and information address,

F. M. STRUBE, Cedar Point, Kans.

Col. R. E. Edmondson and John J. McLinden, Auctioneers.

REGISTERED POLAND=CHINAS

A. K. Sells' sale of 44 head of mature stuff and 50 early spring pigs at the farm 3 miles from

EAT AUCTION =

Fredonia, Kans., Thursday, Sept 24, 1908

20 choice proven sows, most of them bred.

8 extra good, bred fall yearling gilts.

10 fall yearling gilts sold open.

6 young herd headers, and 50 early spring pigs, the tops of my entire crop will be sold in lots to suit purchasers. Some of the best and most popular blood lines of the breed are represented, such as Meddler, Corrector 2d, Meddler 2d, Chief Perfection 2d, Ideal Sunshine, Luster Sunshine, and

Will be Sold at the Public's Own Price

Sale will begin at 1 p. m. sharp, and will be held at the farm under cover. Parties from a distance stop at the Western Hotel at my expense. Free conveyance to the farm. Send bids to L. K. Lewis in my care. For catalogue and information address

A. K. SELL, Fredonia, Kans.

Cols. Snyder and Sheets, Auctioneers.

The Chicago House Wrecking Co.

The Chicago House Wrecking Co.

There has grown up in the city of Chicago an unique business which has assumed tremendous proportions. The Chicago House Wrecking Company is just what its name indicates and more. It buys buildings of any kind that are to be destroyed for some purpose, tears them down, saves the lumber, doors, windows, water pipes, bath tubs, etc., and, after sorting, sells this material at a low rate. If a water pipe is rusted or broken this company cuts out the bad parts, cuts new threads and sells it just as good as new, only in shorter lengths. If an enameled bath tub has the enamel chipped this is repaired and the tub sold as good as ever but cheaper. It is the same way with lumber. It will all be good but may be of shorter lengths. The Chicago House Wrecking Co. is not a mail order house though it does issue an enormous catalogue for the benefit of those customers who can not go to Chicago to select what they want. This great company which is located at Thirty-fifth and Iron Ave., Chicago, first sprang into special prominence in 1893, when it bought the World's Fair buildings at Chicago. Since then it has bought the buildings of practically all of the great World's Fairs in this country, including St. Louis.

It is always equipped with practi-

World's Fairs in this country, including St. Louis.

It is always equipped with practically everything that one could need for the erection, remodeling, or finishing of any kind of building. Read their big advertisement on the last page of this issue and ask them for their big catalogue. Please mention The Kansas Farmer.

The Handy Man.—His Ability Du Largely to the Possession of Prop-er Tools.

Every one knows the handy man and envies his ability to do any kind of work. If he wants some improvements made in his home or farm, he does the work himself and while most people would be waiting for a carpenter or a mason, a plumber, or a gas fitter, he has the job done and done to suit him exactive.

would be waiting for a carpenter or a mason, a plumber, or a gas fitter, he has the job done and done to suit him exactly.

If you investigate you will find that he has a very complete outfit of tools, that whatever he undertakes he has just the proper tools for the job.

Look over your own tool-kit. Could your handy man make out with them? In nine cases out of ten it is the tools not the man, or rather, the handy tools make the handy man.

It is the simplest thing in the world to supply yourself with a complete set of fine tools, each the very best of its kind. Just buy one of the Keen Kutter Tool Cabinets.

Every tool in these cabinets belongs to the famous guaranteed brand of Keen Kutter tools, No other cabinets offered for sale contain a complete set of high grade tools all under the same name, trade-mark and guarantee. No expert could buy a better set of tools, for better tools are not made. The trade-mark on each tool protects you against bad luck, for if anything should go wrong you can have your money back or another tool to replace the one returned.

Keen Kutter Tool Cabinets contain large and small assortments of tools to suit different needs, and range in price from \$8.50 to \$85. Each tool in the cabinets has a special rack or hook of its own which keeps it from being damaged by contact with the others. Drawers are well supplied with little helps and essentials that are apt to be overlooked until you are in the midst of your work—glue, sandpaper, tacks, nails, screws, wire, clamps.

Keen Kutter Tool Cabinets contain saws, brace, bits, chisels, gimlets, awis, planes, hammers, files, pliers, screwdrivers, wrenches, nail sets, reamers, rules, squares—in fact, everything necessary for good work.

For sale at the leading hardware stores. If not at your dealer's, write to Simmons's Hardware Company, (Inc.) St. Louis and New York, U. S. A.

A Book of Especial Interest to Farmers.

One of the most interesting, enter-taining, and instructive books which we have seen, and one which should be of especial interest and value to farmers and agricultural people, is a cloth bound volume of 175 pages on the subject of "Weather."

volume of 175 pages on the subject of "Weather."

Its contents are devoted to the subject of weather and weather instruments, profusely illustrated and written in simple language which is easy to understand. The topics include a wide range of information on subjects which are usually considered of a scientific character, but which are in reality of common interests and something which every one should be familiar with. For instance, there are chapters on the winds, heat, lightening, rainfall, the formation of snow, dew and frost—this latter, by the way, should be of essential interest as it tells the nature of frost and the signs indicating its appearance—fogs and their cause, clouds, dust storms, etc.

It is also explains the use of the more common instruments used for measuring temperature, moisture, and wind velocity, showing how to read the maps issued by the United States Weather Bureau and explaining the method of determining weather forecasts as used by this branch of our government serv-

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PIGNEERS AND LEADERS

ice. It also tells how anyone can forecast the weather for himself to a reasonable certainty by observing the signs in nature. As for instance, the color of the clouds—the way the garden spiders spin their webs—the appearance of the sky—the direction of the wind, and many other exceedingly interesting and yet very common things that one sees every day, but is unconscious of their significance unless informed on the subject.

There are numerous illustrations showing the different kinds of barome-

ject.

There are numerous illustrations showing the different kinds of barometers, therometers, wind instruments, hygrometers, etc., together with an explanation of their use. There is a very interesting chapter on humidity, which tells all about this very uncomfortable but very necessary atmospheric condition and explains why we feel cool when the breeze strikes us on a hot day. It explains the cause and function of dust storms besides giving a great deal of other interesting and valuable information which could be made use of to great advantage by our agricultural friends.

The book is published by the Taylor

The book is published by the Taylor Instrument Companies, manufacturers of weather instruments, Rochester, N. Y., and should be in the home of every

"Kemp's Triumph" Spreader to Be Man-ufactured in Waterloo.

At the George Huntington dairy farm on the Black Hawk road, says the Waterloo (Iowa) Courier, there is being tested out a manure spreader which appears to the Courier reporter as being just as far ahead of any manure spreader now in use, as are the present all steel twine binders ahead of the old wooden frame harvesters.

This new improved machine is a decided novelty in that the material is pulverized and delivered at the forward and back of the axle instead of at the rear of the machine. The advantages in favor of the front delivery are lightness of stopping the apron while the beater tion, cut under truck, and for reason of having a covered beater the use of the machine in windy weather or as a lime distributer is practicable.

In this new machine the top of the

In this new machine the top of the box will be less than 40 inches from the ground as compared with 54 inches in others. This is a decided advantage over other machines on the market.

age over other machines on the market.

Although a model of strength and simplicity the machine has valuable features not found in others, having more weight and double the number of parts. Perhaps the very best feature is the complete control of the apron which can be run forward or back, either empty or loaded. This permits of stopping the aron while the beater remains in full operation, or if desired the operator can run the load back from the beater and then start the machine in operation, thereby avoiding partial unloading of the material in large chunks when first starting up, which is a great drawback in other spreaders. The apron is thrown out of sear automatically after the load is distributed and also when it is returned for filling the box.

The machine is made to spread just 44 locks wide which meets the demand

The machine is made to spread just 44 inches wide, which meets the demand for top dressing on corn, and provides a spreader easily handled with two horses.

This spreader is made under patent No. 818098, dated April 17, 1906, and issued to Joseph S. Kemp, of Newark Valley, N. Y., who is recognized everywhere as the "Father of manure spreaders." In fact, Mr. Kemp regards it as the triumph of his life work.

In conversation with one of the officers of the J. S. Kemp Company this morning he stated that the Kemp company controlled the factory, the valuable front delivery "Kemp" patents, and all trade marks, etc., ever owned by the J. S. Kemp Manufacturing Company, and it was the intention to make the "Kemp's Triumph" spreaders in quantities just as soon as the lease on the factory expires next December.

This officer of the company also called

factory expires next December.

This officer of the company also called the attention of the Courier representative to the fact that the spreader was a combined spreader and farm truck, and although a standard complete spreader in appearance, all of the mechanism was on the spreader frame, which could be removed and the trucks used the year round for general hauling; also that the spreader can be attached to the running gear of any wagon or farm truck, so that as a matter of fact the J. S. Kemp Manufacturing Company will furnish a manure spreader, which, on account of the combination feature, will cost the farmer just about one-half the price he is now obliged to pay for other spreaders of the same capacity.

The company will also make a spe-

spreaders of the same capacity.

The company will also make a specialty of manufacturing a cheap and simple device which enables one man to easily remove the spreader from the truck and which can be utilized for handling wagon boxes and hay racks. It is the purpose of the Kemp Manufacturing Company to sell the new "Triumph" spreaders direct to the dealers by mail. This will flect a big saving in advertising, which, combined with the low fastory cost, will enable the dealer to successfully meet the prices of any catalogue merchant or mail order factory selling direct to the consumer. It is this system of buying which the dealer must adopt in order to exist. to exist.

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harrows.

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America's Greatest Live Stock Exhibition

Public sale of Herefords, Oct. 13; Galloways, Oct. 14; Aberdeen-Angus, Oct. 15, and Shorthorns, Oct. 16.

Ask for catalogue.

A. M. THOMPSON, Secretary

Live Stock Exchange, Kansas City, Mo.

PURE-BRED STOCK SALES.

Shorthorns.

Shorthoras.

Sept. 10. H. K. Frantz, University Place, Neb., at State Fair Grounds.

Sept. 29. S. W. Hogate, Hladen, Neb., Sept. 30. H. H. Hess, Surprise, Neb. Oct. 5. J. F. Robinson, Weota, Ia. Oct. 10. J. F. Robinson, Weota, Ia. Oct. 13. W. C. Meyers, Carroll, Iowa Oct. 22. O. A. Sundeman, Madison, Neb. Neb., at Cambridge, Neb., at Cambridge, Neb., at Cambridge, Nev. 12. L. N. Goudy, Hastings, Neb. Nov. 13. H. B. and C. W. Francisco, Hastings Neb. 10. Neb. 10. John Frick, Manning, Iowa

Herefords.

Red Polls.

Jerseys.

Oct. 12...J. B. Givens, Watonga, Okla., at Oklahoma City.
Oct. 20.......Kinloch Farm. Kirksville, Mo.

Poland-Chinas.

R. E. Mappin, Pattonsburg, Mo.
Sept. 11. J. F. Thomas, Maple City, Kans.
Sept. 22. Morpp Bros., Pleasant Rill.,
Sept. 23. J. A. Jenna. Conway Springs, Kans.
Sept. 24. Morpp Bros., Pleasant Rill.,
Sept. 25. J. A. Jenna. Conway Springs, Kans.
Sept. 26. J. A. Jenna. Conway Springs, Kans.
Sept. 29. J. H. Harvey & Son, Maryville, Mo.
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Sept. 29. J. H. Harvey & Son, Maryville, Mo.
Sept. 29. J. H. Harvey & Son, Maryville, Mo.
Sept. 30. B. H. Collett, Tishoning, Okis.
Sept. 30. J. H. Harvey & Son, Maryville, Mo.
Sept. 30. J. H. Golder, Tishoning, Okis.
Oct. 2. J. M. Devinia, Cameron, Mo.
Oct. 2. J. M. Devinia, Cameron, Mo.
Oct. 3. Andrews Bro. Farm, Kearney, Mo.
Oct. 4. L. D. Arnold, Enterprise, Kans.
Oct. 5. E. A. Vanscoye, Monore, Kans.
Oct. 6. E. A. Vanscoye, Monore, Kans.
Oct. 6. E. A. Vanscoye, Monore, Kans.
Oct. 6. C. H. Harritove, Nettleton, Mo.
Oct. 6. R. H. Harritove, Nettleton, Mo.
Oct. 6. R. H. Harritove, Nettleton, Mo.
Oct. 7. F. E. Miller, Hamilton, Mo.
Oct. 8. Ell Zimmerman, Falview, Kans.
Oct. 9. Ell Zimmerman, Falview, Kans.
Oct. 9. Ell Zimmerman, Falview, Kans.
Oct. 9. Ell Zimmerman, Falview, Kans.
Oct. 10. H. H. Harshaw, Butler, Mo., at HarIsonville, Mo.
Oct. 12. Fred Willie, Columbuove, Mo.
Oct. 13. O. E. Wade, Rising Cubia, Neb.
Oct. 14. O. Addrew Johns, Rosendale, Mo.
Oct. 15. O. Andrew Johns, Rosendale, Mo.
Oct. 16. W. A. Order, Monar, Mol.
Oct. 17. Fred Willie, Columbuove, Mo.
Oct. 18. O. E. Wade, Rising Cubia, Neb.
Oct. 19. W. A. Webb, Bendone, Neb.
Oct. 19. W. A. Harling, Character, Jan.
Oct. 19. W. A. Webb, Bendone, Neb.
Oct. 19. W. A. Webb, Bendone, Neb.
Oct. 20. M. A. Webb, Bendone, N

Duroc-Jerseys.

Sept. 24. J. W. Taylor, Edwardsville, Kan. Sept. 29. J. L. Williams, Beilaire, Kans. Sept. 29. W. H. Cummings & Son, Tecumseh, Neb.
Sept. 29. S. W. Hogate, Bladen, Neb. Sept. 30. John Showalter, Cook, Neb. Oct. 1. Ditmars Bros., Turney, Mo. Oct. 1. C. W. Buck and W. F. Waldo, DeWitt, Neb.
Oct. 6. Ford Skeap, Auburn, Neb.

Oct. 22. W. T. Hutchinson, Cleveland, Mo. Oct. 23. Hopkins Bros. & Sanstead, Holdrege, Neb.
Oct. 23. ... J. C. Monk, Ridgeway, Mo. Oct. 24. O. G. Smith & Son, Kearney, Neb., and Ross R. Steele, Wood River, Neb., at Wood River.
Oct. 26. Watts & Duniap, Martin City, Mo., at Independence, Mo. Oct. 27. R. B. Adams & Son, Thayer, Kans. Oct. 27. O. N. Wilson, Silver Lake, Kans. Oct. 27. O. N. Wilson, Silver Lake, Kans. Oct. 28. Geo. Davis & Son, Mulford, Neb. Oct. 28. Geo. Davis & Son, Mulford, Neb. Oct. 28. Geo. Davis & Son, Mulford, Neb. Oct. 28. Geo. Davis & Sons, and W. H. Miller, Cameron, Mo. Oct. 29. G. W. Colwell, Summerfield, Kans. Oct. 30. Thompson Bros., Garrison, Kans. Oct. 30. Burton Hahn, Norton, Kans. Oct. 30. Burton Hahn, Norton, Kans. Oct. 30. J. E. Rowe, Stockham, Neb. Oct. 31. E. C. Gwinner, Holdrege, Neb. Oct. 31. E. G. Gwinner, Holdrege, Neb. Oct. 31. E. M. Meyers, Burr Oak, Kans. Nov. 3. E. M. Myers, Burr Oak, Kans. Nov. 4. R. M. Wilson, Chester, Neb. Nov. 5. J. F. Stodder and Marshall Bros., Eurden, Kans. Nov. 6. B. F. Porter, Mayfield, Kans. Nov. 6. B. F. Roberts and Harter, Hebron, Neb. Nov. 6. R. M. Wilson, Chester, Neb. Nov. 6. R. M. Wilson, Chester, Neb. Nov. 6. R. F. Roberts and Harter, Hebron, Neb. Nov. 10. W. L. Addey & Son, Parnell, Mo. Nov. 10. W. L. Addey & Son, Parnell, Mo. Nov. 10. W. L. Addey & Son, Parnell, Mo. Nov. 10. W. L. Addey & Son, Parnell, Mo. Nov. 11. Samuel Drybread, Elk City, Kans. Nov. 12. Ellis F. Hopkins, Ridgeway, Mo. Nov. 12. Ellis F. Hopkins, Ridgeway, Mo. Nov. 28. J. Harvey & Son, Manhattan, Kans. Feb. 1. W. T. Fitch, Minneapolis, Kans. Feb. 3. Jno. W. Jones & Son, Concor

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Grand Dispersal Sale

Strong City, Kans., Friday, September 18, '08

The entire herd will be sold to settle estate of the late W. W. Guthrie. Not a single animal will be reserved. Herd Boars, Brood Sows, Sows with pig by side, Bred Sows, Open Gilts, Spring Pigs, etc. The grandest lot of Black Robinhoods ever offered in the history of Berkshires. Herd in perfect health and every animal fitted for future usefulness.

The Greatest Opportunity Ever Presented.

The following great Berkshires will be sold: Berryton Duke 72946 by Black Robinhood, Revelation 86906 by Berryton Duke, Sir Ivanhoe 103092 by Ivanhoe, General Premier 93894 by Lord Premier, Sir Masterpiece 102594 by Masterpiece, Ivanhoe Jr. 97900 by Ivanhoe, Richard Masterpiece 96670 by R. Masterpiece and Alexis Boy 78234 by Baron Premier. The offering includes daughters of Black Robinhood, Berryton Duke, Masterpiece, Forest King, Revelation, Ivanhoe, Lord Bacon, O. H. F. Sensation, Imperial Duke, Headlight, Sylvan Dale, Riverside Lee, King Premier 2d, Searchlight 2d, Lord Premier, Premier Longfellow, Lord Premier's Rival; will include gilts by Berryton Duke, Premier Longfellow, Baron Duke, Ivanhoe Jr., Revelation; spring litters by Berryton Duke, Revelation, General Premier, Berryton Duke Jr., Sir Ivanhoe, Richard Masterpiece, Sir Masterpiece, and Ivanhoe Jr. For catalogues and other information, address

Manager Guthrie Ranche T. F. GUTHRIE.

Sale held by order of W. F. GUTHRIE, Executor.

Feb. 9..B, F. Porter, Mayfield, Kans., at Caldwell, Kans.

Feb. 12. L. E. Kretzmier, Clay Center, Kans., at Emporia, Kans.

Feb. 13. Frank Georgia, Mankato, Kans. Feb. 15. J. A. Rathbun, Downs, Kans. Feb. 16. D. O. Bancroft, Downs, Kans. Feb. 17. R. G. Sollenburger, Woodston, Kans. Feb. 18. John W. Jones & Son, Concordia, Kans., at Emporia, Kans.

The Lincoln Top Sale Circuit.

Oct. 5. A. Wilson, Bethany,
Oct. 6. Ford Skeen, Auburn,
Oct. 7. W. M. Putnem, Tecumseh,
Oct. 8. R. F. Miner, Tecumseh,
Oct. 9. Elmer Lamb, Tecumseh,
Oct. 10. F. C. Crocker, Filley,

Central Kansas Sale Circuit.

Oct. 6. N. J. Fuller, Garnett, Kan.
Oct. 7. J. F. Staadt, Ottawa, Kans.
Oct. 8. H. R. Gingrich, Wellsville, Kans.
Oct. 9. C. R. Green, Spring Hill, Kans.

Southeastern Kansas Sale Circuit.

Nov. 11....Samuel Drybread, Elk City, Kans. Nov. 12.....Frank Drybread, Elk City, Kans. Nov. 13.....Baker, Elk City, at Thayer, Kans.

Chester Whites.

Oct. 13......J. E. Simpson, Sheridan, Mo. Berkshires.

Sept. 18....T. F. Guthrie, Strong City, Kans. Oct. 17....A. C. Dugan, at Blackwell, Okla. Oct. 27.....C. A. Robinson, Kirksville, Mo. O. I. C.

Feb. 16....J. C. Robison, Mgr., Wichita, Kans. Nov. 23,24, 25..Draft breeds registered horses at Springfield, Ill., W. C. Mc-Gavock & Co., Mgrs.

Combination Sales.

Oct. l and 2..Woodson County Breeders' Association, G. A. Loude, secretary, at Yates Center, Kans. Feb. 16, 17, 18...J. C. Robison, Mgr., Towanda, Kans., at Wichita, Kans.

American Royal Sales,

Oct. 13—Herefords. Secretary C. R. Thomas, manager, 221 West 12th St., Kansas City, Mo.

Oct. 14—Galloways..Secretary R. W. Brown, manager, 17 Exchange Ave., Chicago. — Aberdeen-Angus. Secretary Charles Gray, manager, 17 Exchange Ave., Chicago.

Oct. 15—Berkshires..Charles E. Sutton, manager, Lawrence, Kans.
Oct. 16—Shorthorns.. Secretary R. O. Cowan, manager, 17 Exchange Ave., Chicago.

International Sales.

Aberdeen-Angus..Secretary Charles Gray, manager, 17 Exchange Ave., Chicago.

Chicago.

Dec. 2—Galloways...Secretary R. W. Brown, manager, 17 Exchange Ave., Chicago.

Dec. 3—Herefords...Secretary C. R. Thomas, manager, 221 West 12th St., Kansas City, Mo.

Dec. 4—Shorthorns..Secretary B. O. Cowan, manager, 17 Exchange Ave., Chicago.

The Outside of a Home.

The Outside of a Home.

While most of us take great pride in "fixing up" the interior of our homes, making it cosy and attractive, many are less particular about the outside, when, as a matter of fact, the surroundings of a home have more to do with its general beauty than the inside. And, if you will stop to think about it, it's the fence that has most to do with the appearance of your yard. Tumbledown wooden fences will ruin the appearance of any yard, and because they are wood, most wood fences are tumbledown.

The Cyclon Fence Co., of Waukegan, Ill., manufactures many beautiful designs in ornamental steel fences, any one of which would not only add 100 per cent to the attractiveness of any home, but would save the owner its cost over and over again by the cutting out of repair bills. These fences, together with their perfect steel drive gate, form a combination that will outlast a score of wooden fences and gates, and yet they are actually no higher in price.

The Cyclone Fence Company's advertisement in this issue offers readers of THE KANBAS FARMER its finely illustrated catalogue free—every home owner who takes pride in the appearance of the home should send for it.

The "Juniata News," published by the American Steel and Wire Co., Chicago, contains valuable illustrated papers about horse shoes and shoeing. It will be well for every owner of horses to send for a copy of this interesting publication. It is free for the asking.

How To Grow Better Fruit. (Continud from page 963.)

that it will be found a most profitable and satisfactory change to so readjust the customary plans or to rearrange the cropping system in such a manner as to permit the giving of proper attention to the orchard at proper times. Frequently it is merely the appreciation of what is the most important thing that is needed. For instance, if the early spraying for codling moth, which must be done within the space of a week or so, comes at the same time that the corn needs cultivating, or some other farm operation that, according to time-honored custom, receives attention then, is it not a logical sequence of events to assume that the other thing can wait with less loss than can that early spraying for coddling moth, which must be done at a particular stage of the apple, if it is to be effective?

"I admit that my attitude is one of prejudice in favor of the orchard at the expense of other farm work, if this need be, but if the orchard, acre for acre, is the most profitable part of the average farm, in spite of neglect, isn't it worth while to foster somewhat carefully this profitable interest, especially when such fostering is practically sure to greatly increase in a relative degree the value of those interests? Suppose an apple tree is capable of producing eight barrels of apples, and that under ordinary conditions of neglect 50 per cent of these can be graded as No. 1. But if the expenditure of a comparatively few cents per tree and a little energy in pruning, spraying, fertilizing, etc., will make 90 per cent of that fruit No. 1, and not only that, but a much better grade of No. 1 than in the first instance, isn't it a good business proposition to invest those few cents and that little energy in the way suggested?"

Perhaps no better statement of existing conditions, and the changes which are needed, can be made than this one by Professor Gould. Growers must disabuse their minds of the idea that apples will grow without care. Even the most favored sections will not produce good apples in this way. Here is what Mr. Gould says on this subject:

"I know one section of country which is actually suffering on account of the bouquets that have been heaped upon it and the backs that have been patted. The people have been misguided by the compliments that have been paid them into thinking that nature has done everything for them, and that they had nothing to do but to plant the trees. But that method can not be made to work anywhere."-Farm and Stock.

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Special Want Column

"Wanted," "For Sale," "For Exchange," and small want or special advertisement for abort time will be inserted in this column without display for 10 cents per line of seven words or less per week. Initials or a number counted as one word. We order accepted for less than \$1.00.

FOR SALE - Ninety-five head of high-grade Hereford yearling helfers. Geo. M. Lambert, Route 3, Cheney, Kans.

HOLSTEINS—Registered and A. R. O. at half value. DeKol. Colantha, Johanna, Canary, Mer-cedes, Hengerveld, Hartog, Sarcastic, Pauline, Clothilde, Aaggle, Wystje and Josephine breeding predominates. G. G. Burton, Topeka, Kans.

POLLED DURHAMS—A few young bulls; also 30 head of cows and helfers bred, for sale. Prices reasonable. C. M. Albright, Overbrook; Kans.

FOR SALE—Registered Holstein-Friesian bull, 2 years old. Registered O. I. C. brood sow and pedigreed male. Good individual. Prices ressonable. R. J. Fitzgerald, R. δ , Columbus, Kans.

ALYSDALE SHORTHORNS—Offer 2 bulls, 10 females. The bulls are "Lothair," by Prince Consort, dropped August 21, 1907, and "Sylvester," by Prince Consort, dropped September 2, 1907. Both out of Lord Mayor dams. Cows are nicely bred and in calf to Prince Consort or Master of Alyadale. Will be priced right to any buyer. C. W. Merriam, Columbian building, Topeka, Kans.

SWINE.

FOR SALE—A few very choice Poland-China fall and soring boars; in good breeding condition, F. L. Tripp, Meriden, Kans.

HORSES AND MULES.

FOR SALE—Three jacks, age 3 to 10 years, registered; Mammoth, 15 to 16 hands high; black; 12 jennets; 2 colts; 2 Jacks, age 1½ to 2 years; 1 Percheron stallion, black, 1700 pounds. Write for particulars, Henry D. C. Poos, Blackburn, Okla.

SEEDS AND PLANTS.

PURE-BRED ZIMMERMAN WHEAT — The greatest yielding soft wheat. Seed purchased from Manhattan Experiment Station, 1907. Re-cleaned and sacked, \$1.50 per bushel, f. o. b. J. P. Klamm, Basehor, Kans.

SEED WHEAT—Bearded Fife, a hard wheat. This wheat was obtained from the Kansas Experiment Station. I have used every precaution to keep it pure, and have graded the seed with a good fanning mill. This variety is one of the best yielders. Price, sacked, on cars f. o. b., \$1.50 per bushel. C. H. White, Route 5, Burlington, Kans.

KARKOFF WHEAT—Seed from Hays Experi-ment Station, 1906. \$1.25 per bushel, sacks included. W. W. Cook, Russell, Kans.

COLLEGE BRED SEED WHEAT-Kharkof and Malakoff. Ten Eyck Company, Concordia, Kans.

KHARKOV SEED WHEAT—Have some fine seed for sale, All seed cleaned and graded. For par-ticulars write, Fred G. Carls, Clay Center, Kans.

SEED WHEAT—We have the seed that made Kansss rich and famous. The Hard Turkey. The hardlest, and best milling wheat grown. Will grow on any good land. Prices reasonable. Write for free sample. W. J. Madden, Hays, Kansas.

FARMERS, SOW THE BEST—We have pure Kharkof seed wheat, recleaned and graded, price \$1.50 per bushel in lots of 4 bushels or more, f. o. b. at Bellatre, Smith Co., Kans. Seed from Manhattan College, 1907. Chas & W. S. Honn.

TENNESSE WINTER BARLEY—Averaged 47 bushels per acre for 3 years. \$1 per bushel. \$5c per bushel in lots of 10 bushels or more. Best of pasture. Walter Jenkinson, Pond Creek, Okia.

THE BEST ALFALFA SEED GROWS
"OUT THERE IN KANSAS",
We sell it. Ask us for samples and prices. The
Barteldes Seed Co., Lawrence, Kans.

WANTED TO BUY-New crop Meadow Fescue or English Blue Grass seed. If you have any to offer, please correspond with us. The Barteldes Seed Co., Lawrence, Kans.

SHEEP.

FOR SALE—400 breeding ewes with 400 lambs, in bunches to suit on farm of W. R. Lott, Highland Park. Address, Route 1, Topeka, Kans. Ind. Phone 2674.

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150 spring pigs by the herd boars, attractive Chief 61097 and Big Crimson 69413, and other good sires. Choice boars for sale now. T. E. Goethe, Leonard-ville, Riley Co., Kans.

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Devinia. An 800-pound boar in show fiesh. The
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80 Good ones, consisting of 68 growthy spring pigs and a few choice gitts, out of richly bred prolific dams, and by Great Excitement, a son of Meddler 7d. Our fall say is called off and these will be sold at private treaty at moderate prices. Stock registered and guaranteed.

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We Invite Personal Inspection High Grade, New Millwork Every foot of our lumber is clean—fresh from the mill—carefully graded—delivered exactly in accordance to grade. Remember our stock moves fast. Our supply is never old or dirty like in local yards. You can see our stock personally. Call and inspect it thoroughly before you buy. See with your own eyes that our claims are absolutely true. You will find that our lumber grades exactly in accordance with our representation.

You Can Order Safely By Mail From Us! Hundreds of farmers, contractors, builders, carpenters and others visit our yards every month. Thousands more order direct by mail, first sending in their bills for estimates. In either way perfect satisfaction is absolutely assured and guaranteed.

We are in better shape to quote you low prices on mill-work than any other concern in the world. We can furnish you millwork of any kind or character. We can furnish everything—either the regular or special sizes. Send us a memorandum of your requirements. Let us make you an estimate. Be sure and get our prices on shingles, flooring, sheathing and siding. We also have a complete line of fire places and mantels—everything in building hardware. You will find our prices right. Send for our estimate today. Many concerns offer lumber for delivery from mills and have only offlees from which they make quotations. Ninety per cent sell lumber on a brokerage basis and never have any of their goods in stock. Not so with us, we occupy a space of 40 acres covered with lumber and building material.

We can save you 40 to 60 per cent on all kinds of Roofing Material

Send Us Your Complete List

IMPORTANT- LUMBER AND BUILDING MATERIAL

We Will Send You at Once Our Estimates for all the Items You Require Gasoline Engines and Rebuilt **Traction Outfits** at one half Price

Ask for our Special Furniture Catalog

Ask for our prices on Plumb-Ing and Heating **Fixtures**

> On application we will make you an estimate, freight prepaid, showing what material will cost you laid down at destination on orders for carload lots. If you do not need a carload get your neighbors

car including Furniture, Roofing, Hardware, Mill Supplies, Machinery or anything else you need for furnishing or improving your buildings or farm. Thus you can make a big saving. Why pay exorbitant prices to local lumber yards? Buy from us at first hand. Save 40c on every dollar bill. Save freight charges. We want small orders as well as

Orders! big ones. We cater to the small customer.
Let us figure with you. Send in your bill for our estimate—we have everything you need.

NO DEPOSIT

We will fill your lumber orders without one cent of cash deposit.

We offer extremely liberal terms. All that prospective buyers need to do is to prove their responsibility. WE SHIP LUMBER AND BUILDING MATERIAL WITHOUT CASH IN ADANCE to any honest Farmer, Contractor, Carpenter, Builder or reader of this paper. In accordance with our simple method you can qualify and take advantage of this generous offer. DELIVER IT AT YOUR STATION WITH FREE PRIVILEGE OF EXAMINATION. You need not accept it unless thoroughly satisfactory in every respect. **NO DEPOSIT**

LOOKS GOOD TO LOCAL DEALER

Jaloaded Car of lumber, found it O. K. Part of it is in the ch. Quite a good many have looked at it and they all think was a fine car of lumber. Our dealer stood by the car and the dealer piece taken out, but could not say anything against Saved \$125.00. GEO. N. HODGE, Mich., July 26, 1908.

MADE \$250,00 ON ONE ORDER

I haved saved, on my bill of lumber from you, about \$250,00 which I think is quite worth while. Have recommended your lumber to all here. Many came to examine it and found it satisfactory. They fail to understand how you can sell as cheaply according to the prices of dealers here. I found the doors the best I have ever used. MAT KIRK, N. Y., July 6, 1908.

SAVED \$150.00

to club in with you. You can get a mixed

My car of lumber arrived in good shape and quicker than I expected. Am well pleased. I had a "bee," Al my neighbors helped me haul it. They all praised it much, even a lumberman said it was better lumber than he had in his yards. Will say that you saved me \$150,00 or my bill CHAS. BAKER, S. D., July 15, 1908.

20 MEN SAY O. K

The lumber arrived all right. Very satisfactory, saved a least \$300.00 on my ontire bill. Twenty men her looked at the lumber and all said it was better than can be bought here for almost doub, the price. You may loo for orders from here before Fall.

WILLIS CLAYTER, Wyo., July 26, 1908.

THE EXACT P. O. ADDRESS OF THE WRITERS OF THESE LETTERS WILL BE FURNISHED ON APPLICATION TO PROSPECTIVE CUSTOMERS.

We have thousands of letters from lumber buyers all over the United States who are happier and richer for sending us their orders. These few letters are samples of bushels of testimonials that bear out our statements in this advertisement about our money-saving offers.

\$10,000 The building, lumber and millwork supplies we offer you are new, fresh and clean. They are not wreckage, Do not listen to the statements of retail lumber deal-form from the personal point listen to the statements of retail lumber deal-form from the personal point listen to the statements of retail lumber deal-form from the personal point listen to the statements of retail lumber deal-form from the personal point listen to the statements of retail lumber deal-form from the personal point listen to the statements of retail lumber deal-form from the personal point lumber and millwork supplies we offer you are new, fresh and clean. They are not wreckage, Do not listen to the statements of retail lumber deal-form from the personal point lumber and millwork supplies we offer you are new, fresh and clean. They are not wreckage, Do not listen to the statements of retail lumber deal-form from the personal point lumber and millwork supplies we offer you are new, fresh and clean. They are not wreckage, Do not listen to the statements of retail lumber deal-form from the personal point lumber and millwork supplies we offer you are new, fresh and clean. They are not wreckage, Do not listen to the statements of retail lumber deal-form from the personal point lumber and millwork supplies we offer you are new, fresh and clean. They are not wreckage, Do not listen to the statements of retail lumber deal-form from the personal point lumber and personal personal point lumber and personal pe

personally. Our goods are delivered in exact accordance with representations in this advertisement. We are ready to forfeit \$10,000 in cash if you can prove that this advertisement is false, misleading or deceiving.

Railroad tracks run right into our buildings. We can have your order on its way within 48 hours if necessary. Every shipment goes by the shortest, quickest and most economical route. We must ship promptly. Every possible conship promptly. Every possible conship promptly. Every possible consecurable is yours. Give cession securable is yours. Give us a trial. Send us your order when you get our literature and prices

MAIL THIS

It will put you in touch with the wonderful situation in the lumber market. It will bring you our thousands of money-saving offers. Don't put this off if you are going to build or improve. No order is so small that we cannot save you from 40% to 60%. If you want our this advertisement, mail us the coupon today.

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the material you want, provided we want, provided we want, provided we want one carload of one carload of gives you an opportunity to look over our tremendous stock. You can select what you want and see it loaded. Bill of lading showing shipment will also be given you immediately. and see it loaded. Bill of lading showing ment will also be given you immediately.

We will send you, free, a copy of our new 1908-09 edition of house and barn plans. It contains many photographic pictures of new up-to-date residences, farm homes, barns, cottages, etc.—all of the most modern design. It contains complete construction plans of each floor for houses costing from \$450.00 upward. Shows most popular style of farm homes now being constructed. Also contains up-to-date barn plans—side and cross section views—hip roofs, bank barns, sheep and dairy barns, horse stables, etc. Fill in and send coupon today.

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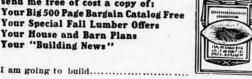
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